					ST DEPARTMENT DIVISION C	T OF NA			6			AMENDED RE	FORM 3 PORT	
		APPLI	CATION FOR	R PERMIT	T TO DRILL					1. WELL N	AME and NUN BOULDER	IBER POINT FEE 3	424-36-1H	
2. TYPE OF		RILL NEW WELL (REENTER P	&A WELL	DEEPEN	I WELL [)			3. FIELD O	R WILDCAT	WILDCAT		
4. TYPE OF	WELL	Oil We	ll Coall	ned Metha	ne Well: NO					5. UNIT or	COMMUNITIZ	ATION AGRE	EMENT N	AME
6. NAME OF	OPERATOR		.NADARKO E&F							7. OPERAT	OR PHONE	720 929-6300)	
8. ADDRESS	OF OPERATOR		Box 173779,		<u> </u>					9. OPERA	OR E-MAIL	bson@anada		
	L LEASE NUMBER	?			ERAL OWNERS	SHIP DIAN () STATE (3 3 cc.	E (1)	12. SURFACE OWNERSHIP FEDERAL INDIAN STATE FEE				
13. NAME C		51418 NER (if box 12 = 'fee				JIAN	JOINIE	2 FEE			CE OWNER I	HONE (if box	12 = 'fee'	
15. ADDRES	SS OF SURFACE	OWNER (if box 12 =								16. SURFA		35-459-1795 E-MAIL (if box		')
17. INDIAN	ALLOTTEE OR TE). Box 132, Mo	18. INT	END TO COMM		PRODUCTIO	N FROM		19. SLANT				
(if box 12 =	'INDIAN')			YES	(Submit C		lling Applicat	ion) NC) (VERTICA	L DIRE	CTIONAL 🔵	HORIZO	NTAL 📵
20. LOCAT	ION OF WELL		F	OOTAGES	5	QT	R-QTR	SE	CTION	том	NSHIP	RANGE		MERIDIAN
LOCATION	AT SURFACE		450	FSL 703 F	FEL		SESE		36	34	.0 S	24.0 E		S
Top of Upp	permost Produci	ng Zone	660 I	NL 760 F	FEL	N	VENE		36	34	.0 S	24.0 E		S
At Total D			660 I	NL 760 F			VENE		36		.0 S	24.0 E		S
21. COUNT		N JUAN			TANCE TO NEA	66	60			23. NUMBE	R OF ACRES	640	UNIT	
					TANCE TO NEA d For Drilling	or Comp		E POOL		26. PROPC	SED DEPTH MD:	9653 TVD:	5718	
27. ELEVAT	ION - GROUND L	EVEL 6725		28. BON	ND NUMBER	2201	3542				E OF DRILLI SHTS APPRO	NG WATER / /AL NUMBER Municipal	IF APPLIC	ABLE
				ŀ	Hole, Casing	, and C	ement Info	ormatio	n					
String	Hole Size	Casing Size	Leng	jth	Weight	Gra	ide & Thre	ad	Max Mu	ıd Wt.	Cement	Sacks	Yield	Weight
SURF	13.5	9.625	0 - 2	000	36.0		J-55 LT&C		8.	4	Type III	620	2.21	12.5
											Type III	260	1.55	14.3
I1	8.75	7	0 - 6	045	29.0	НС	CP-110 LT8	kC	10	.0	Class G	490	1.52	12.5
PROD	6	4.5	5146 -	9653	15.1	НС	CP-110 LT8	kC .	10	.0	Class G Class G	160 350	1.15	15.8 13.5
		<u> </u>	'		A	TTACH	IMENTS							'
	VERIFY	THE FOLLOWIN	G ARE ATTA	CHED IN	I ACCORDAN	ICE WIT	TH THE UT	AH OIL /	AND GAS	CONSER	VATION GE	NERAL RUL	ES	
W EL	L PLAT OR MAP I	PREPARED BY LICE!	NSED SURVEY	OR OR EN	GINEER		I ✓ CON	IPLETE D	RILLING PL	-AN				
✓ AFFI	DAVIT OF STATUS	S OF SURFACE OWN	IER AGREEME	NT (IF FEE	SURFACE)		I FORI	M 5. IF OP	PERATOR IS	OTHER TI	HAN THE LEA	SE OWNER		
DIRE	CTIONAL SURVE	Y PLAN (IF DIRECTI	ONALLY OR F	IORIZONT	ALLY DRILLED))	№ ТОРО	OGRAPHI	CAL MAP					
NAME Gina	a Becker			TITLE R	egulatory Analy	rst II			PHONI	E 720 929-	6086			
SIGNATUR	E			DATE 0	5/24/2013				EMAIL	gina.becke	r@anadarko.	com		
	er assigned 3750061000	00		APPROV	/AL				Bo	00 cyl	ÚL,			
									Perm	it Mana	ger			

ANADARKO E&P ONSHORE, LLC

BOULDER POINT FEE 3424-36-1H

Surface: 450 FSL / 703 FEL SESE BHL: 660 FNL / 760 FEL NENE

Section 36 T34S R24E

San Juan County, Utah Mineral Lease: ML-51418

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. & 2. Estimated Tops of Important Geologic Markers:

Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

Formation	TVD	
Dakota	Surface	~ ()
Morrison	214	Water
Entrada	968	
Navajo	1133	Water
Chinle	1988	
Honaker Trail	4436	Gas & Water
Ismay	5491	Oil/Gas
Gothic	5718	Oil/Gas
TVD =	5718	
TD =	9653	

Please refer to the attached Drilling Program and Geological Information for the Pilot Hole information

3. <u>Pressure Control Equipment</u> (Schematic Attached)

The BOP is detailed on the the following tab. This BOP will be connected to a 5M choke panel with 2 chokes, one being remotley actuable. We will have a diverter on our surface holes. The BOPE will be NU after we set the surface string. All flows will be treated as a gas flow. We will shut-in, record pressures, set up a kill schedule & perform a weight-and-wait method to kill the well. After we have pumped the KWM around we will shut back in, record pressures, once pressures are zero, we will clear the floor, open the BOP and do a flow check.

4. <u>Proposed Casing & Cementing Program</u>:

Please refer to the attached Drilling Program and Geological Information

5. <u>Drilling Fluids Program</u>:

Please refer to the attached Drilling Program and Geological Information

6. <u>Evaluation Program</u>:

Please refer to the attached Drilling Program and Geological Information

7. Abnormal Conditions:

Please refer to the attached Drilling Program and Geological Information

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

None

10. Other Information:

Please refer to the attached Drilling Program and Geological Information

Anadarko will use a Co-Flex hose line, a flexible pipe, instead of a hard steel pipe for the kill line. This will run from the BOP to the choke manifold, and will reduce the amount of time required to rig up for the re-entry work on the well.

Please see attached Drilling Program for specifications on the Co-Flex hose.

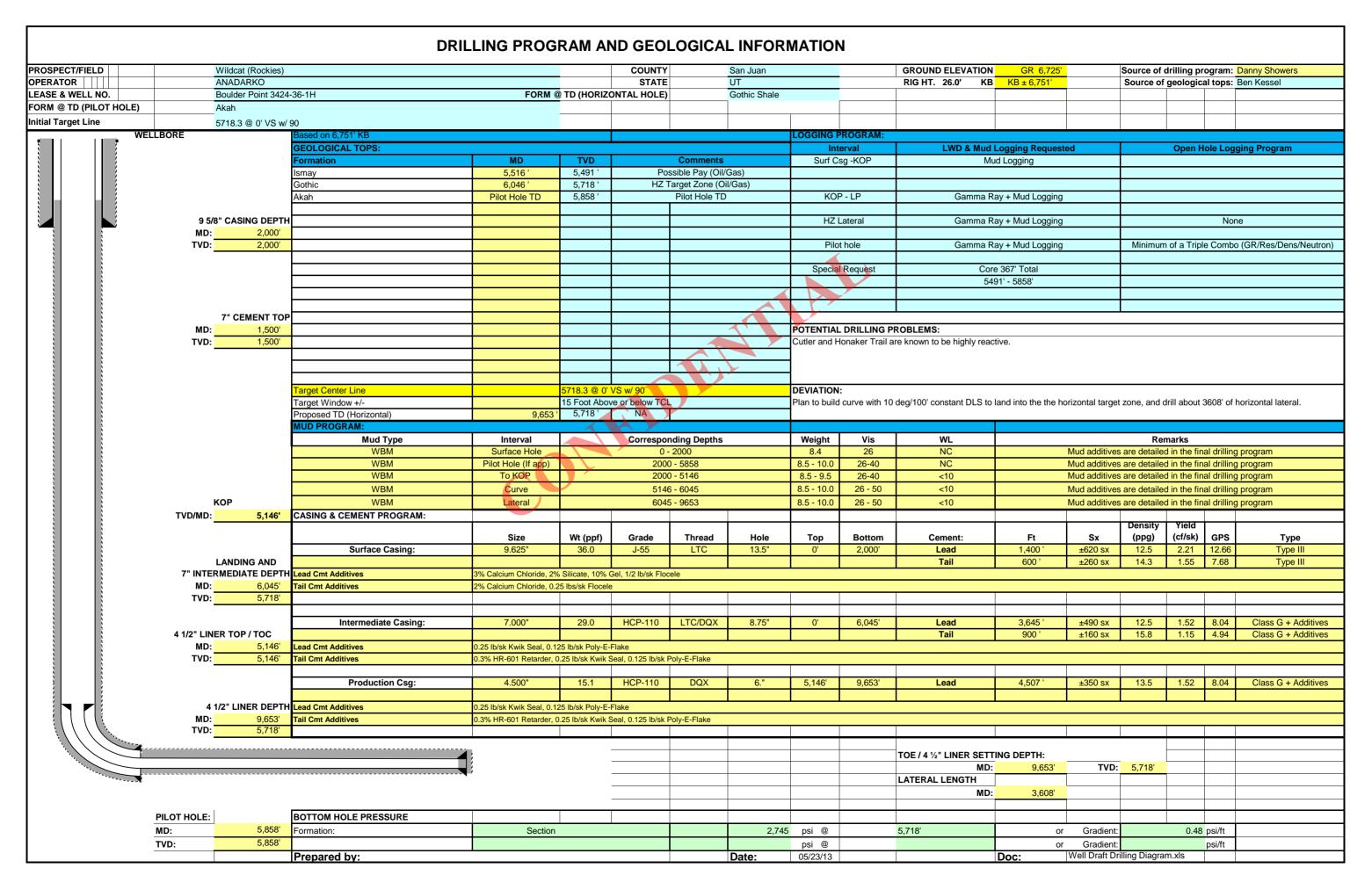
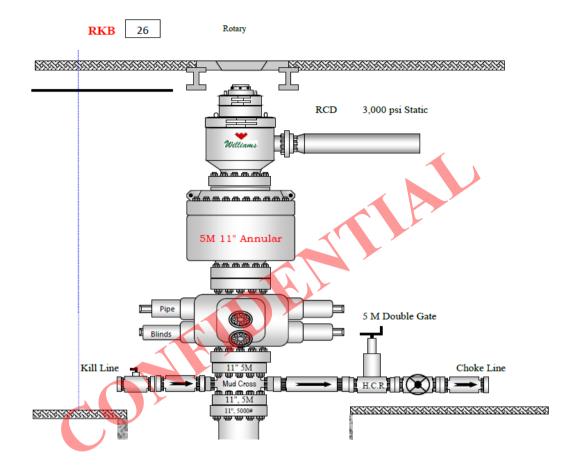


EXHIBIT A
BOULDER POINT FEE 3424-36-1H



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

API Well Number: 43037500610000 QC-DB-140/2006

Page: 5/54

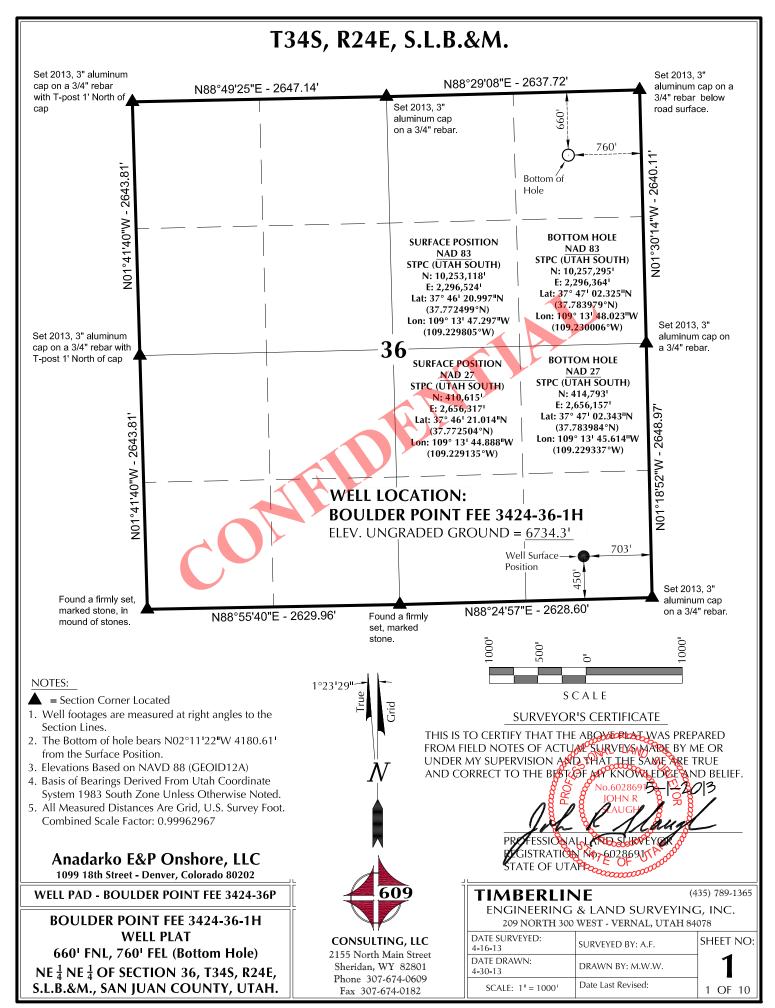


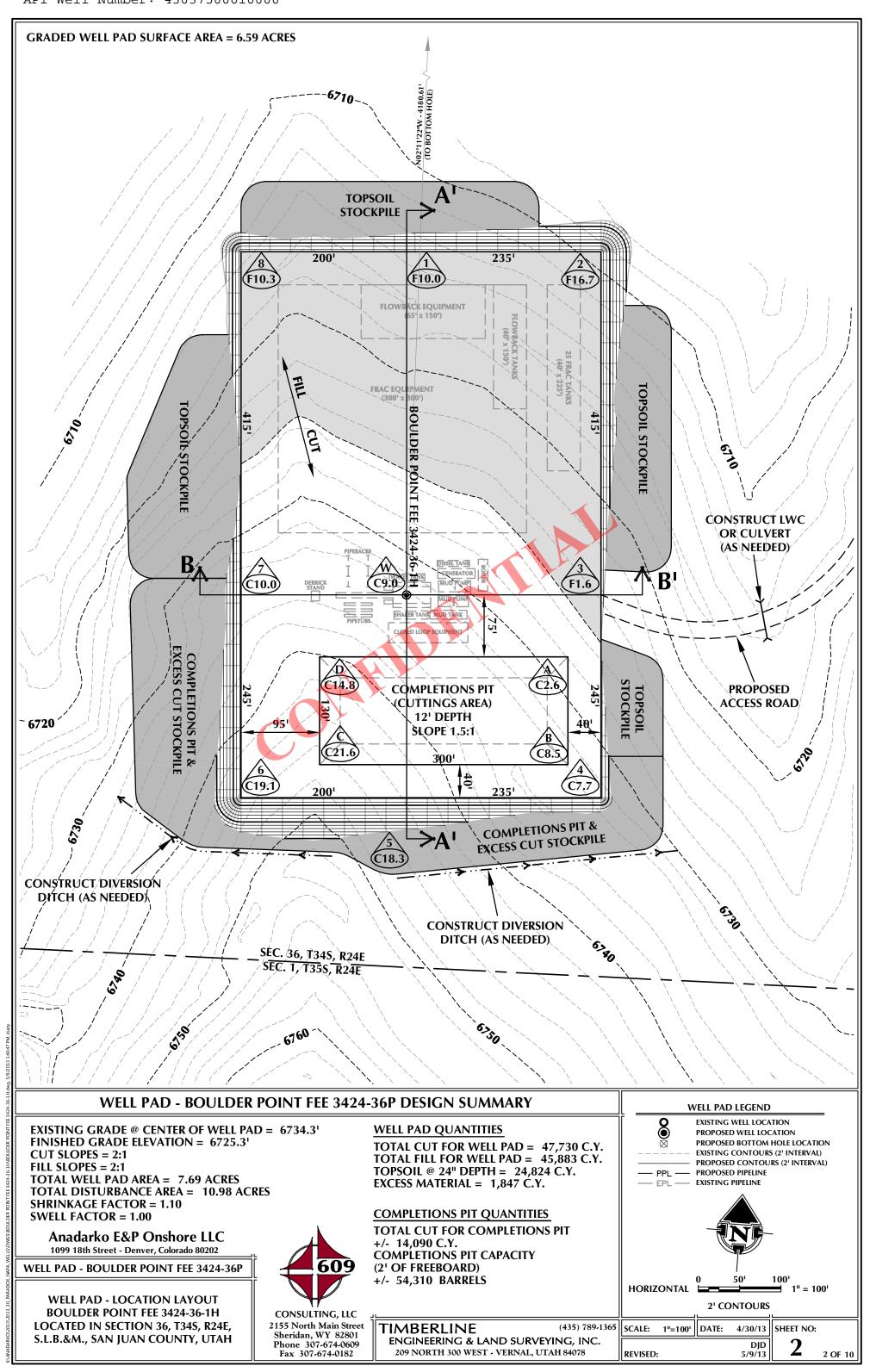
QUALITY DOCUMENT

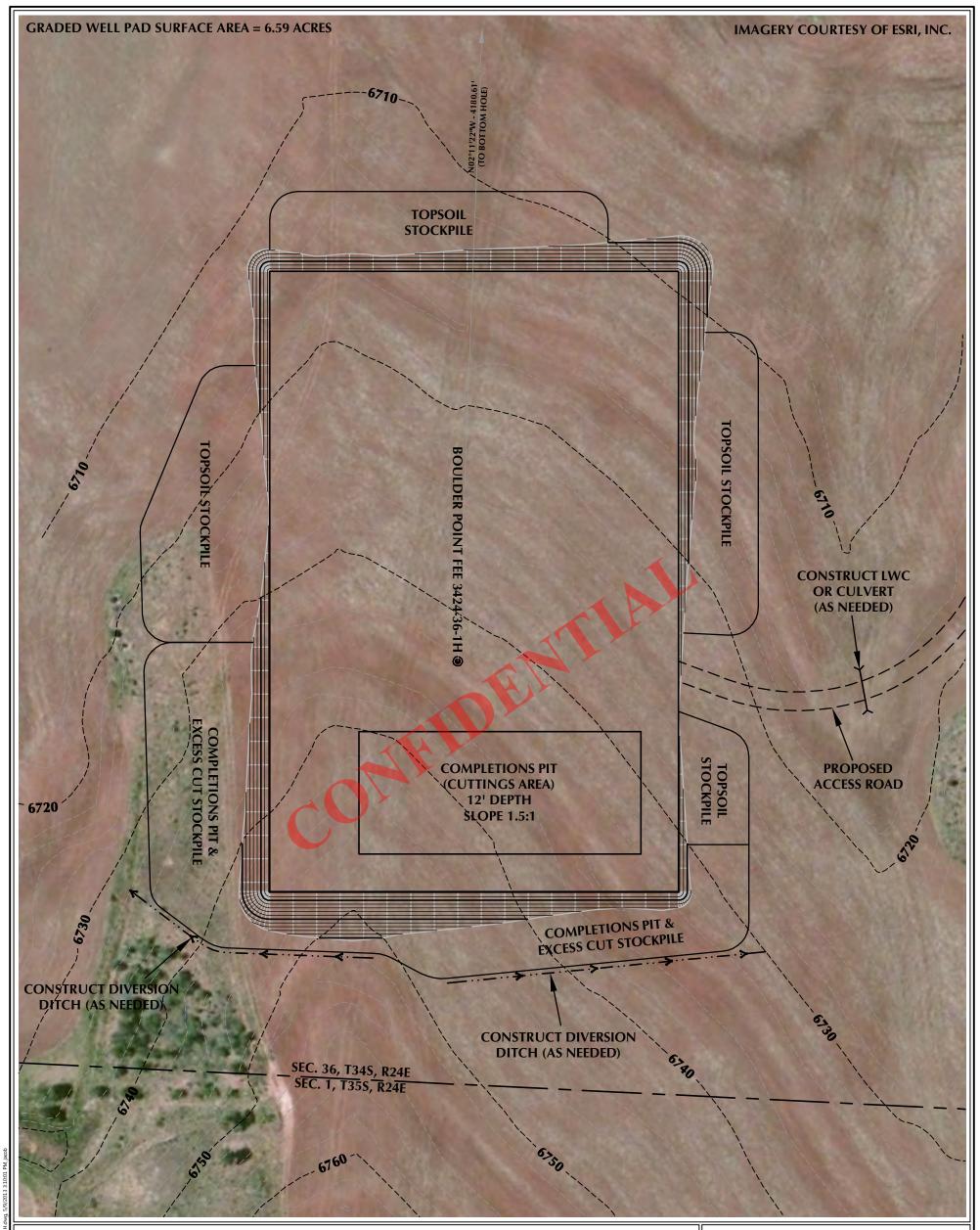
PHOENIX RUBBER
INDUSTRIAL LTD.

H-6728 Szeged, Budapesti út 10. Hungary • H-6701 Szeged P.O.Box: 152 • Phone: (3662) 566-737, Fax: (3662) 566-738 The Court of Csongrád County as Registry Court, Registry Court reg.No.: Cg.06-09-002502

QUA INSPECTION	LITY CONT		CATE	CERT.	N°:	930	
PURCHASER:	Phoenix Bea	ttie Co.		P.O. N°	:	000671	
PHOENIX ORDER N°:	337079	HOSE TYPE:	3" [D Cho	ke and Ki	II Hose	
HOSE SERIAL N°:	46305	NOMINAL / AC	TUAL LEN	GTH:	6,10 m		
W.P. 68,96 MPa	10000 psi	T.P. 103,4	MPa 1	15000 psi	Duration:	60	min.
	See	attachment	(1 page	e)			
		COUP	LINGS				
Туре	5	Serial Nº		Quality		Heat N	0
3" coupling with	1818	1817		AISI 4130		93412	
4 1/16° Flange en	d			AISI 4130		59534	
All metal parts are flawless WE CERTIFY THAT THE ABO PRESSURE TESTED AS ABOV	VE HOSE HAS BEE	EN MANUFACTUR	RED IN ACC	CORDANCE WIT	Tem	API Spec 16 iperature ra	ate:"B"
Date:	Inspector		Quality Co	ontrol			
07. April. 2006			2	Hose	NIX AUI lustrial Li inspection inspection I	td.	·







WELL PAD - BOULDER POINT FEE 3424-36P DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 6734.31 FINISHED GRADE ELEVATION = 6725.31 CUT SLOPES = 2:1FILL SLOPES = 2:1 **TOTAL WELL PAD AREA = 7.69 ACRES TOTAL DISTURBANCE AREA = 10.98 ACRES SHRINKAGE FACTOR = 1.10 SWELL FACTOR = 1.00**

Anadarko E&P Onshore LLC

1099 18th Street - Denver, Colorado 80202

WELL PAD - BOULDER POINT FEE 3424-36P

WELL PAD - LOCATION LAYOUT BOULDER POINT FEE 3424-36-1H LOCATED IN SECTION 36, T34S, R24E, S.L.B.&M., SAN JUAN COUNTY, UTAH



Sheridan, WY 82801

Phone 307-674-0609 Fax 307-674-0182

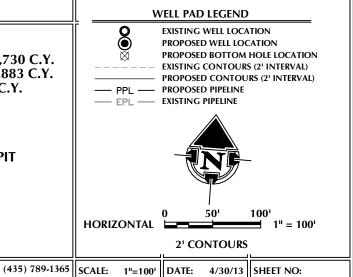
WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 47,730 C.Y. TOTAL FILL FOR WELL PAD = 45,883 C.Y. **TOPSOIL** @ 24" **DEPTH** = 24,824 **C.Y.** EXCESS MATERIAL = 1,847 C.Y.

COMPLETIONS PIT QUANTITIES

TOTAL CUT FOR COMPLETIONS PIT +/- 14,090 C.Y. **COMPLETIONS PIT CAPACITY** (21 OF FREEBOARD) +/- 54,310 BARRELS

TIMBERLINE ENGINEERING & LAND SURVEYING, INC. 209 NORTH 300 WEST - VERNAL, UTAH 84078

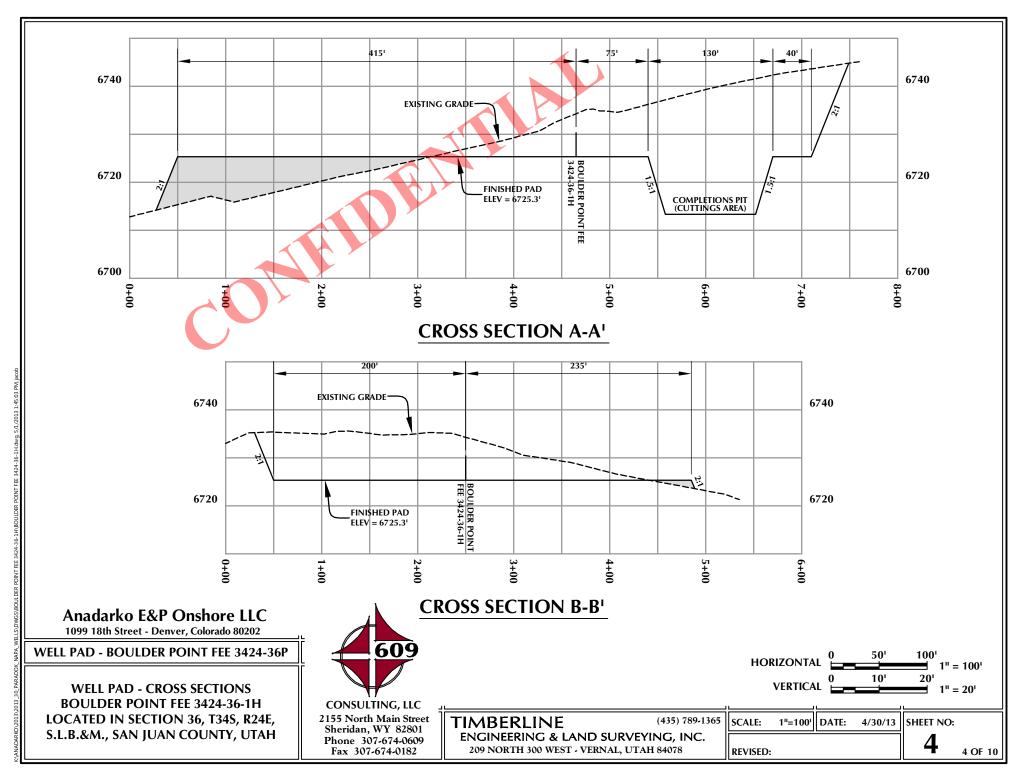


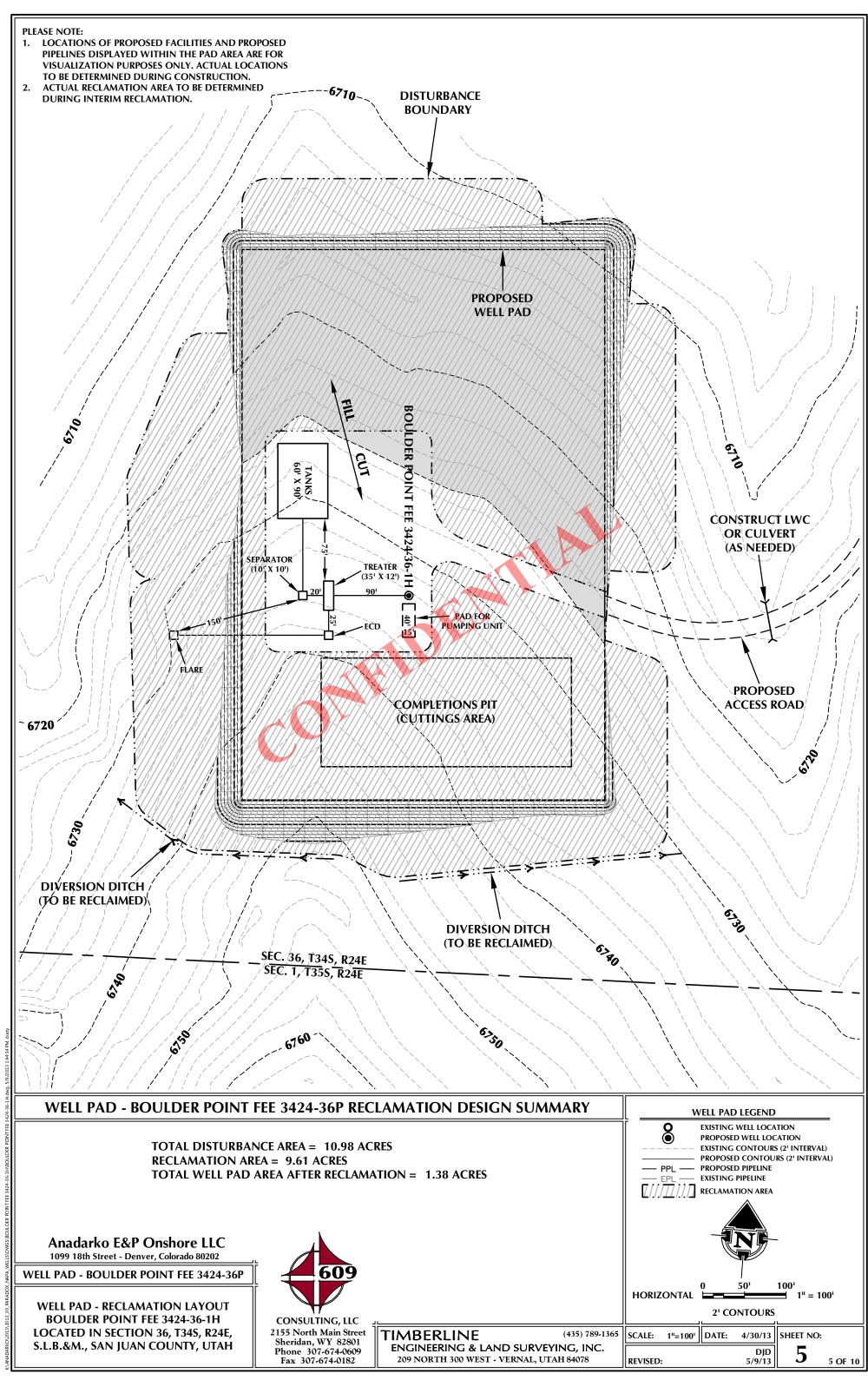
JID 5/9/13

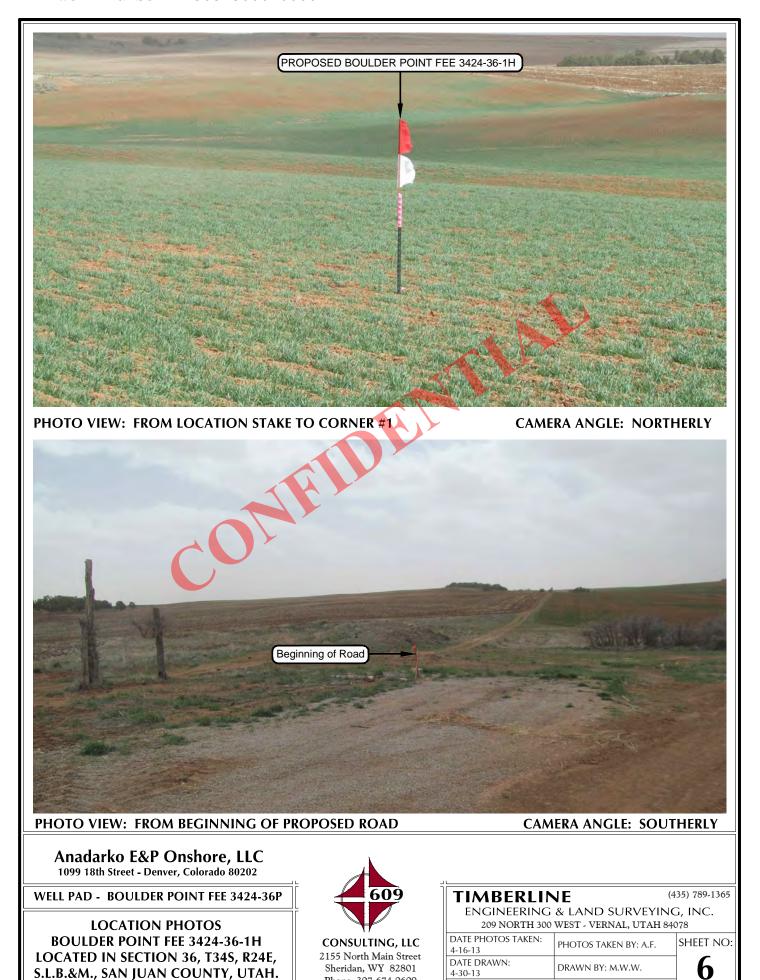
REVISED:

3

3 OF 10







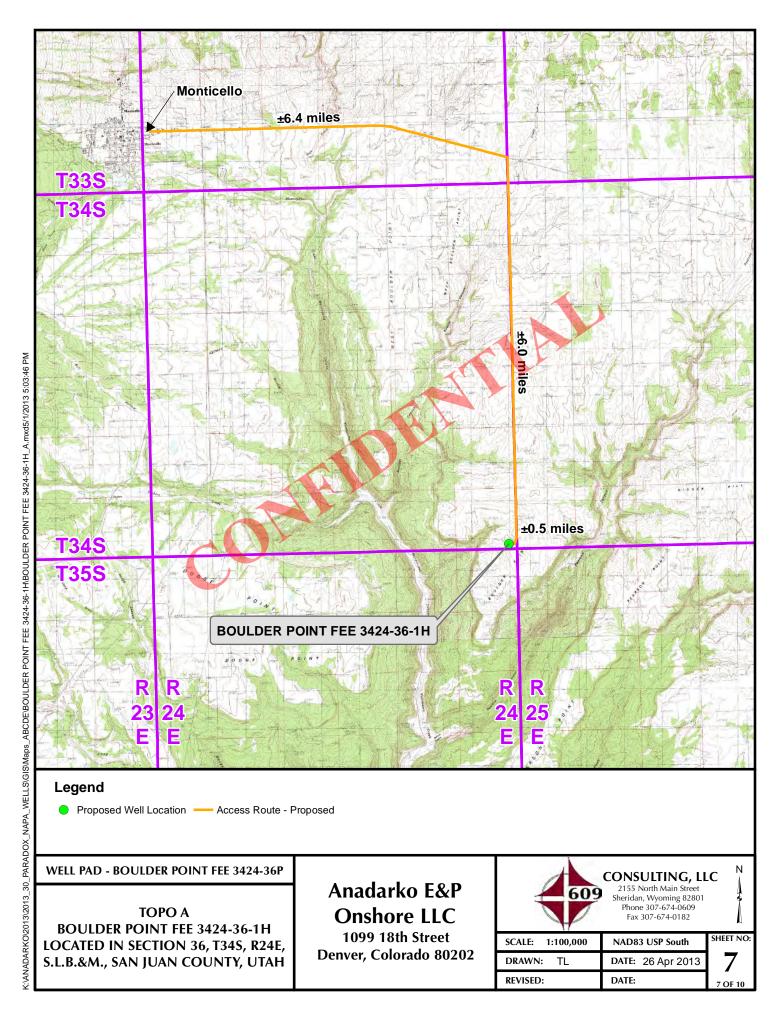
Phone 307-674-0609

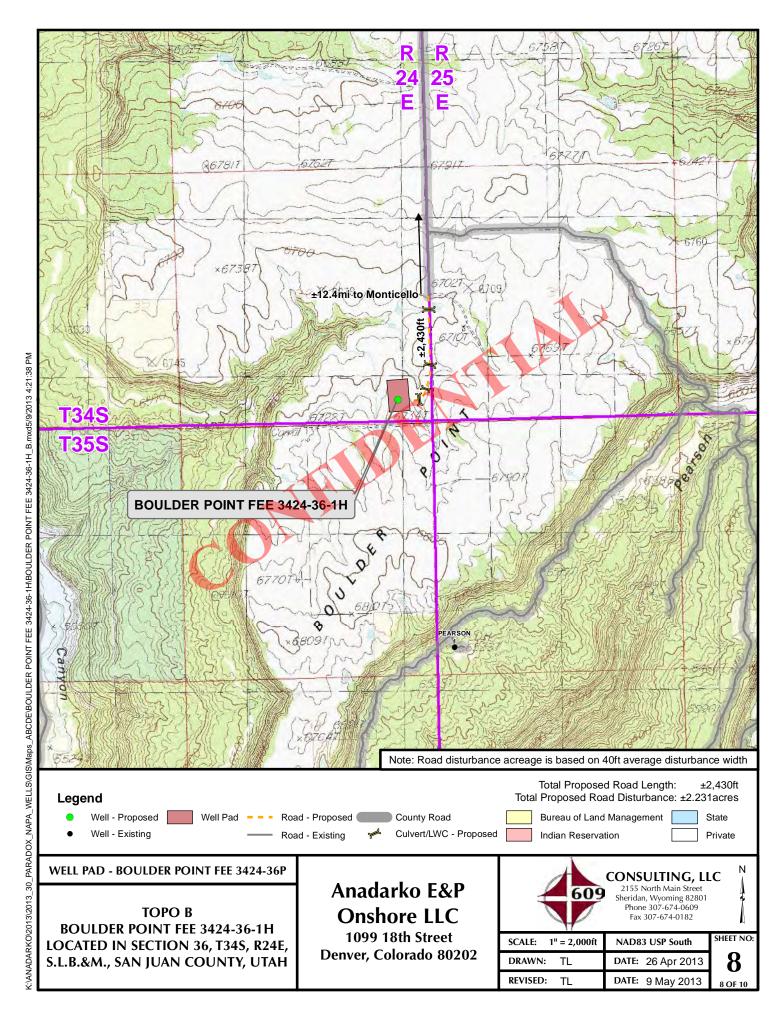
Fax 307-674-0182

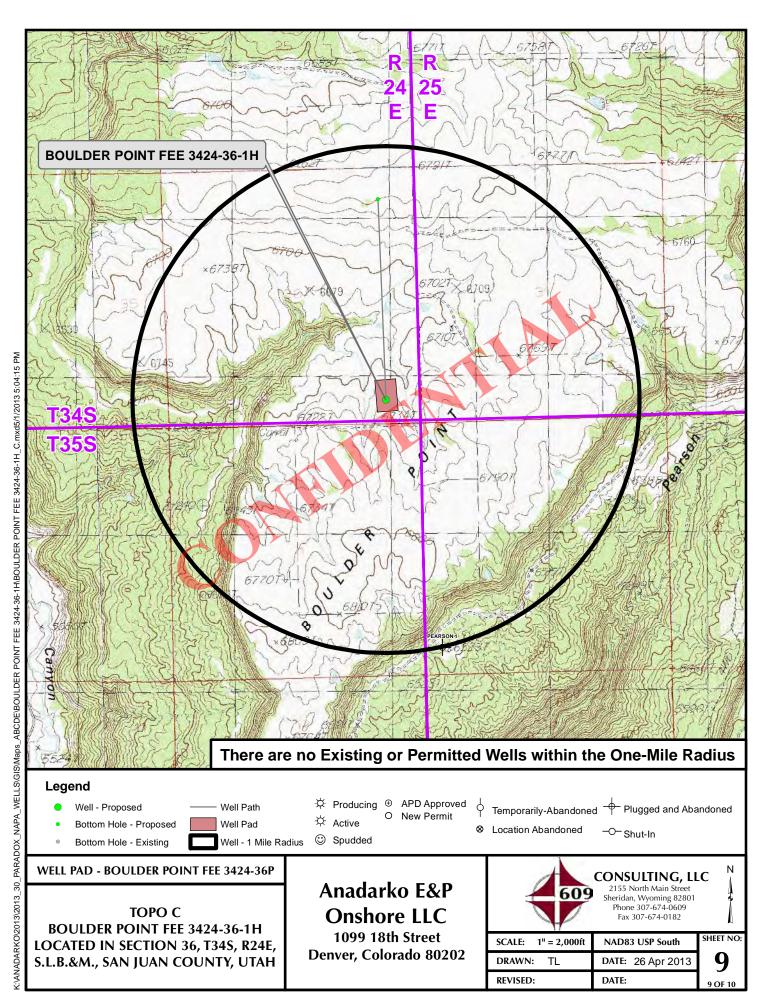
Date Last Revised:

RECEIVED: May 24, 2013

6 OF 10







ANADARKO E&P ONSHORE LLC WELL PAD – BOULDER POINT FEE 3424-36P WELL – BOULDER POINT FEE 3424-36-1H LOCATED IN SECTION 36 T34S, R24E, S.L.B.&M.

From the intersection of North Main Street and East Center Street in Monticello, Utah, proceed in an easterly direction along East Center Street, which becomes U.S. Highway 491, approximately 6.4 miles to the intersection of West Boulder Spur Road (County Road 309) to the south. Exit right and proceed in a southerly direction along West Boulder Spur Road approximately 6.0 miles to the proposed access road to the south. Follow the road flags in a southerly, then westerly direction approximately 2,430 feet to the proposed well location.

Total distance from Monticello, Utah to the proposed Boulder Point Fee 3424-36P well pad is approximately 12.9 miles in a southeasterly direction.

SHEET 10 OF 10



Site: BOULDER POINT FEE 3424-36-1H Well: BOULDER POINT FEE 3424-36-1H

Wellbore: HORIZONTAL

Design: PLAN #2 HORIZONTAL



WELL DETAILS: BOULDER POINT FEE 3424-36-1H GL 6725 & KB 26 @ 6751.00ft (ASSUMED) Northing 13719939.25 Easting +N/-S +E/-W Latittude Longitude 2152116.51 37.7725040 -109.2291350 0.00 0.00 **DESIGN TARGET DETAILS** +N/-S +E/-W Northing Easting Latitude Longitude Name PBHL Shape 5718.70 4179.91 -58.38 13724117.29 2151978.99 37.7839840 -109.2293370 Point - plan hits target center **SECTION DETAILS** VSect **TVD** +N/-S +E/-W Dleg TFace MDInc Azi 5145.74 0.00 0.00 0.00 0.00 5145.74 0.00 0.000.00 6045.74 90.00 359.20 5718.70 572.90 -8.00 10.00 359.20 569.28 9653.10 90.00 359.20 5718.70 4179.91 -58.38 0.00 0.00 4153.49 PBHL Geodetic System: Universal Transverse Mercator (US Survey Feet)

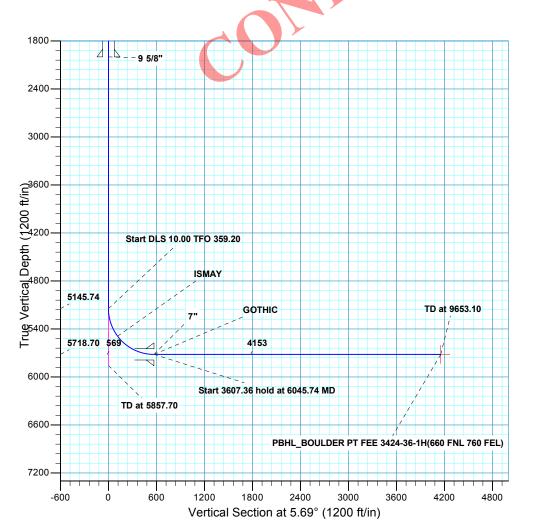
Datum: NAD 1927 (NADCON CONUS) Ellipsoid: Clarke 1866 Zone: Zone 12N (114 W to 108 W) Location: SECTION 36 T34S R24E System Datum: Mean Sea Level CASING DETAILS Size TVD MD Name 2000.00 9 5/8" 2000.00 9.625 5718.70 6045.74 7.000 FORMATION TOP DETAILS Formation **TVDPath MDPath** ISMAY 5515.92 5490.70

GOTHIC 5718.70 6045.74

API Well Number: 43037500610000

Scientific Drilling

WELL DETAILS: BOULDER POINT FEE 3424-36-1H GL 6725 & KB 26 @ 6751.00ft (ASSUMED) +N/-S +E/-W Northing Easting Latittude Longitude 0.00 0.00 13719939.25 2152116.51 37.7725040 -109.2291350 SECTION DETAILS +N/-S +E/-W Dleg TFace VSect MD Azi TVD Inc Target 5145.74 0.00 0.00 5145.74 0.00 0.00 0.00 0.00 0.00 6045.74 90.00 359.20 5718.70 572.90 -8.00 10.00 359.20 569.28 0.004153.49 9653.10 90.00 359.20 5718.70 4179.91 -58.38 0.00 PBHL_BOULDER PT FEE 3424-36-1H(660 FNL 760 FEL) FORMATION TOP DETAILS CASING DETAILS Formation TVDPath MDPath DipDirInc TVD Name Size 9 5/8" 9.625 ISMAY 2000.00 5490.70 5515.92 37.02 2000.00 **GOTHIC** 5718.70 6045.74 7" 7.000 5718.70 6045.74 90.00



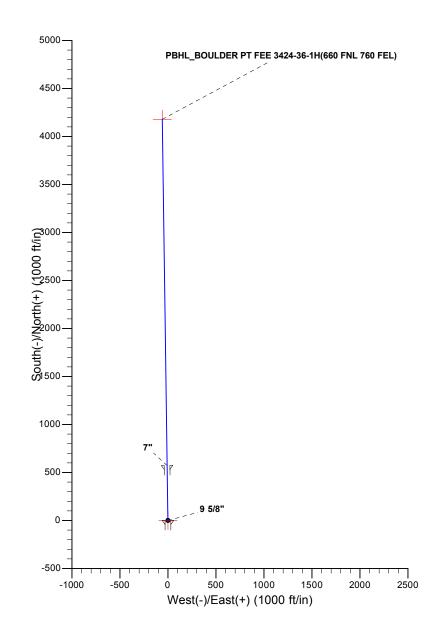
Project: UTAH - UTM (feet), NAD27, Zone 12N Site: BOULDER POINT FEE 3424-36-1H

Well: BOULDER POINT FEE 3424-36-1H

Wellbore: HORIZONTAL

Design: PLAN #2 HORIZONTAL





Plan: PLAN #2 HORIZONTAL (BOULDER POINT FEE 3424-36-1H/HORIZONTAL)

Created By: RobertScott Date: 16:24, May 21 2013



US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N BOULDER POINT FEE 3424-36-1H BOULDER POINT FEE 3424-36-1H

PILOT

Plan: PILOT

Standard Planning Report

21 May, 2013





SDI Planning Report



37.7725040

1.08

-109.2291350

EDM5000-RobertS-Local Database: Company: Project:

US ROCKIES REGION PLANNING UTAH - UTM (feet), NAD27, Zone 12N **BOULDER POINT FEE 3424-36-1H**

BOULDER POINT FEE 3424-36-1H

Wellbore: **PILOT PILOT** Design:

Site:

Well:

Site

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well BOULDER POINT FEE 3424-36-1H GL 6725 & KB 26 @ 6751.00ft (ASSUMED) GL 6725 & KB 26 @ 6751.00ft (ASSUMED)

Minimum Curvature

Project UTAH - UTM (feet), NAD27, Zone 12N

Map System: Universal Transverse Mercator (US Survey Feet)

NAD 1927 (NADCON CONUS) Geo Datum: Map Zone: Zone 12N (114 W to 108 W)

System Datum: Mean Sea Level

BOULDER POINT FEE 3424-36-1H, SECTION 36 T34S R24E

Northing: 13,719,939.24 usft Site Position: Latitude: From: Lat/Long Easting: 2,152,116.50 usft Longitude:

Position Uncertainty: 0.00 ft Slot Radius: 13.200 in

Grid Convergence:

Well BOULDER POINT FEE 3424-36-1H, 450' FSL 703' FEL

Well Position +N/-S 0.00 ft 13,719,939.24 usft Latitude: 37.7725040 Northing: +E/-W 0.00 ft Easting: 2,152,116.50 usft Longitude: -109.2291350

0.00 ft Wellhead Elevation: **Ground Level:** 6,725.00 ft **Position Uncertainty**

Wellbore **PILOT** Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (nT) (°) IGRF2010 2012/09/19 10.48 64.03 50,992

PILOT Design Audit Notes: Version: Phase: PLAN Tie On Depth: 0.00 **Vertical Section:** Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 0.00

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00 5,857.70	0.00 0.00	0.00 0.00	0.00 5,857.70	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00 PB	HL_BOULDER PC



SDIPlanning Report



Database: EDM56
Company: US RC
Project: UTAH
Site: BOULI

Well:

Wellbore:

Decian

EDM5000-RobertS-Local US ROCKIES REGION PLANNING UTAH - UTM (feet), NAD27, Zone 12N BOULDER POINT FEE 3424-36-1H BOULDER POINT FEE 3424-36-1H

PILOT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well BOULDER POINT FEE 3424-36-1H GL 6725 & KB 26 @ 6751.00ft (ASSUMED) GL 6725 & KB 26 @ 6751.00ft (ASSUMED)

True

Minimum Curvature

Design:	PILOT								
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00 9 5/8"	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00 5,100.00 5,200.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5,000.00 5,100.00 5,200.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00



SDIPlanning Report



Database: Company: Project: Site: EDM5000-RobertS-Local
US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N BOULDER POINT FEE 3424-36-1H BOULDER POINT FEE 3424-36-1H

Well: BOULD
Wellbore: PILOT
Design: PILOT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well BOULDER POINT FEE 3424-36-1H GL 6725 & KB 26 @ 6751.00ft (ASSUMED) GL 6725 & KB 26 @ 6751.00ft (ASSUMED)

True

Minimum Curvature

lanned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.00 5,400.00	0.00 0.00	0.00 0.00	5,300.00 5,400.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
5,490.70	0.00	0.00	5,490.70	0.00	0.00	0.00	0.00	0.00	0.00
ISMAY								X	
5,500.00 5,600.00 5,700.00 5,715.70	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5,500.00 5,600.00 5,700.00 5,715.70	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
GOTHIC									
5,800.00 5,857.70	0.00 0.00	0.00 0.00	5,800.00 5,857.70	0.00 0.00	0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
TD at 5857.7	0 - AKAH - PBHI	_BOULDER PO	DINT FEE 3424-3	6-1H PILOT					

Design Targets Target Name - hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting		
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
PBHL_BOULDER POIN - plan hits target cent - Point	0.00 ter	0.00	5,857.70	0.00	0.00	13,719,939.24	2,152,116.50	37.7725040	-109.2291350

Casing Points					
	Measured Depth	Vertical Depth		Casing Diameter	Hole Diameter
	(ft)	(ft)	Name	(in)	(in)
	2,000.00	2,000.00 9 5/8"		9.625	12.250

Formations						
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	5,490.70	5,490.70	ISMAY		0.00	
	5,715.70	5,715.70	GOTHIC		0.00	
	5,857.70	5,857.70	AKAH		0.00	

Plan Annotation	ıs					
	Measured	Vertical	Local Coord	dinates		
	Depth	Depth	+N/-S	+E/-W		
	(ft)	(ft)	(ft)	(ft)	Comment	
	5,857.70	5,857.70	0.00	0.00	TD at 5857.70	



US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N BOULDER POINT FEE 3424-36-1H BOULDER POINT FEE 3424-36-1H

HORIZONTAL

Plan: PLAN #2 HORIZONTAL

Standard Planning Report

21 May, 2013





SDI Planning Report



37.7725040

EDM5000-RobertS-Local Database: Company: Project:

US ROCKIES REGION PLANNING UTAH - UTM (feet), NAD27, Zone 12N

BOULDER POINT FEE 3424-36-1H BOULDER POINT FEE 3424-36-1H

Wellbore: **HORIZONTAL**

Site:

Well:

Geo Datum: Map Zone:

Site

PLAN #2 HORIZONTAL Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well BOULDER POINT FEE 3424-36-1H GL 6725 & KB 26 @ 6751.00ft (ASSUMED) GL 6725 & KB 26 @ 6751.00ft (ASSUMED)

Minimum Curvature

Project UTAH - UTM (feet), NAD27, Zone 12N

Map System: Universal Transverse Mercator (US Survey Feet)

NAD 1927 (NADCON CONUS) Zone 12N (114 W to 108 W)

System Datum: Mean Sea Level

BOULDER POINT FEE 3424-36-1H, SECTION 36 T34S R24E

Northing: 13,719,939.24 usft Site Position: Latitude: From: Lat/Long Easting: 2,152,116.50 usft Longitude:

Position Uncertainty: 0.00 ft Slot Radius: 13.200 in

-109.2291350 Grid Convergence: 1.08

Well BOULDER POINT FEE 3424-36-1H, 450' FSL 703' FEL

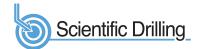
Well Position +N/-S 0.00 ft 13,719,939.24 usft 37.7725040 Northing: Latitude: +E/-W 0.00 ft Easting: 2,152,116.50 usft Longitude: -109.2291350

0.00 ft Wellhead Elevation: **Ground Level:** 6,725.00 ft **Position Uncertainty**

Wellbore HORIZONTAL Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (nT) (°) IGRF2010 2012/09/19 10.48 64.03 50,992

PLAN #2 HORIZONTAL Design Audit Notes: Version: Phase: PLAN Tie On Depth: 5,145.74 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 5.69

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
5,145.74 6.045.74	0.00 90.00	0.00 359.20	5,145.74 5.718.70	0.00 572.90	0.00 -8.00	0.00 10.00	0.00 10.00	0.00 -0.09	0.00 359.20	
9,653.10	90.00	359.20	5,718.70	4,179.91	-58.38	0.00	0.00	0.00		BHL BOULDER P



SDI **Planning Report**



Database: Company: Project: Site: Well:

Decian

EDM5000-RobertS-Local US ROCKIES REGION PLANNING UTAH - UTM (feet), NAD27, Zone 12N BOULDER POINT FEE 3424-36-1H

BOULDER POINT FEE 3424-36-1H

Wellbore: HORIZONTAL PLAN #2 HORIZONTAL Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well BOULDER POINT FEE 3424-36-1H GL 6725 & KB 26 @ 6751.00ft (ASSUMED) GL 6725 & KB 26 @ 6751.00ft (ASSUMED)

True

Minimum Curvature

n:	PLAN #2 HOR	RIZUNTAL							
ned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,145.74	0.00	0.00	5,145.74	0.00	0.00	0.00	0.00	0.00	0.00
Start DLS 10	.00 TFO 359.20								
5,200.00	5.43	359.20	5,199.92	2.57	-0.04	2.55	10.00	10.00	0.00
5,300.00	15.43	359.20	5,298.14	20.64	-0.29	20.51	10.00	10.00	0.00
5,400.00	25.43	359.20	5,391.74	55.49	-0.78	55.14	10.00	10.00	0.00
5,500.00	35.43	359.20	5,477.86	106.06	-1.48	105.39	10.00	10.00	0.00
5,515.92	37.02	359.20	5,490.70	115.47	-1.61	114.74	10.00	10.00	0.00
ISMAY									
5,600.00	45.43	359.20	5,553.88	170.82	-2.39	169.74	10.00	10.00	0.00
5,700.00	55.43	359.20	5,617.51	247.80	-3.46	246.23	10.00	10.00	0.00
5,800.00	65.43	359.20	5,666.80	334.65	-4.67	332.54	10.00	10.00	0.00
5,900.00	75.43	359.20	5,700.26	428.74	-5.99	426.03	10.00	10.00	0.00
6.000.00	85.43	359.20	5,716.87	527.21	-7.36	523.88	10.00	10.00	0.00
6,045.74	90.00	359.20	5,718.70	572.90	-8.00	569.28	10.00	10.00	0.00
	6 hold at 6045.74				0.00	230.20	70.00	10.00	0.00
6,100.00	90.00	359.20	5,718.70	627.16	-8.76	623.19	0.00	0.00	0.00
6,200.00	90.00	359.20	5,718,70	727.15	-10.16	722.55	0.00	0.00	0.00
6,300.00	90.00	359.20	5,718.70	827.14	-11.55	821.91	0.00	0.00	0.00
6,400.00	90.00	359.20	5,718.70	927.13	-12.95	921.27	0.00	0.00	0.00
6,500.00	90.00	359.20	5,718.70	1,027.12	-14.35	1,020.63	0.00	0.00	0.00
6,600.00	90.00	359.20	5,718.70	1,127.11	-15.74	1,119.98	0.00	0.00	0.00
6,700.00	90.00	359.20	5,718.70	1,227.10	-17.14	1,219.34	0.00	0.00	0.00
6,800.00	90.00	359.20	5,718.70	1,327.09	-18.54	1,318.70	0.00	0.00	0.00
6,900.00	90.00	359.20	5,718.70	1,427.08	-19.93	1,418.06	0.00	0.00	0.00
7,000.00	90.00	359.20	5,718.70	1,527.07	-21.33	1,517.42	0.00	0.00	0.00
7,100.00	90.00	359.20	5,718.70	1,627.06	-22.72	1,616.77	0.00	0.00	0.00
7,200.00	90.00	359.20	5,718.70	1,727.05	-24.12	1,716.13	0.00	0.00	0.00
7,300.00	90.00	359.20	5,718.70	1,827.04	-25.52	1,815.49	0.00	0.00	0.00
7,400.00	90.00	359.20	5,718.70	1,927.03	-26.91	1,914.85	0.00	0.00	0.00
7,500.00	90.00	359.20	5,718.70	2,027.02	-28.31	2,014.21	0.00	0.00	0.00
7,600.00	90.00	359.20	5,718.70	2,127.01	-29.71	2,113.57	0.00	0.00	0.00
7,700.00	90.00	359.20	5,718.70	2,227.00	-31.10	2,212.92	0.00	0.00	0.00
7,800.00	90.00	359.20	5,718.70	2,326.99	-32.50	2,312.28	0.00	0.00	0.00
7,900.00	90.00	359.20	5,718.70	2,426.98	-33.90	2,411.64	0.00	0.00	0.00
8,000.00	90.00	359.20	5,718.70	2,526.97	-35.29	2,511.00	0.00	0.00	0.00
8,100.00	90.00	359.20	5,718.70	2,626.96	-36.69	2,610.36	0.00	0.00	0.00
8,200.00	90.00	359.20	5,718.70	2,726.95	-38.09	2,709.72	0.00	0.00	0.00
8,300.00	90.00	359.20	5,718.70	2,826.94	-39.48	2,809.07	0.00	0.00	0.00
8,400.00	90.00	359.20	5,718.70	2,926.93	-40.88	2,908.43	0.00	0.00	0.00
8,500.00	90.00	359.20	5,718.70	3,026.92	-42.28	3,007.79	0.00	0.00	0.00
8,600.00	90.00	359.20	5,718.70	3,126.91	-43.67	3,107.15	0.00	0.00	0.00
8,700.00	90.00	359.20	5,718.70	3,226.90	-45.07	3,206.51	0.00	0.00	0.00
8,800.00	90.00	359.20	5,718.70	3,326.89	-46.47	3,305.87	0.00	0.00	0.00
8,900.00	90.00	359.20	5,718.70	3,426.88	-47.86	3,405.22	0.00	0.00	0.00
9,000.00	90.00	359.20	5,718.70	3,526.87	-49.26	3,504.58	0.00	0.00	0.00
9,100.00	90.00	359.20	5,718.70	3,626.86	-50.66	3,603.94	0.00	0.00	0.00
9,200.00	90.00	359.20	5,718.70	3,726.85	-52.05	3,703.30	0.00	0.00	0.00
9,300.00	90.00	359.20	5,718.70	3,826.84	-53.45	3,802.66	0.00	0.00	0.00
9,400.00	90.00	359.20	5,718.70	3,926.83	-54.85	3,902.01	0.00	0.00	0.00
9,500.00	90.00	359.20	5,718.70	4,026.83	-56.24	4,001.37	0.00	0.00	0.00
9,600.00	90.00	359.20	5,718.70	4,126.82	-57.64	4,100.73	0.00	0.00	0.00
9,653.10	90.00	359.20	5,718.70	4,179.91	-58.38	4,153.49	0.00	0.00	0.00



SDI **Planning Report**



Database: Company: Project: Site: Well:

EDM5000-RobertS-Local

US ROCKIES REGION PLANNING UTAH - UTM (feet), NAD27, Zone 12N BOULDER POINT FEE 3424-36-1H **BOULDER POINT FEE 3424-36-1H**

HORIZONTAL

Wellbore: Design: PLAN #2 HORIZONTAL Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well BOULDER POINT FEE 3424-36-1H GL 6725 & KB 26 @ 6751.00ft (ASSUMED) GL 6725 & KB 26 @ 6751.00ft (ASSUMED)

Minimum Curvature

Decign Torque									
Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_BOULDER PT FI - plan hits target cer - Point		0.00	5,718.70	4,179.91	-58.38	13,724,117.29	2,151,978.99	37.7839840	-109.2293370

Casing Points	Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
	(14)	(14)	Name	(***)	(111)
	2,000.00	2,000.00 9 5/8"		9.625	12.250
	6,045.74	5,718.70 7"		7.000	7.500

Formations							
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	5,515.92 6,045.74	5,490.70 IS 5,718.70 G			0.00 0.00		

F	Plan Annotations				
	Measured	Vertical	Local Coo	rdinates	
	Depth	Depth	+N/-S	+E/-W	
	(ft)	(ft)	(ft)	(ft)	Comment
	5,145.74	5,145.74	0.00	0.00	Start DLS 10.00 TFO 359.20
	6,045.74	5,718.70	572.90	-8.00	Start 3607.36 hold at 6045.74 MD
	9,653.10	5,718.70	4,179.91	-58.38	TD at 9653.10

Boulder Point	
ΛDI	

AFFIDAVIT OF SURFACE USE AGREEMENT

I, Michael P. Coder, Land Manager for Anadarko Petroleum Corporation, do hereby state the following:

Anadarko E&P Onshore LLC has entered into a Surface Use Agreement with Kevin R. Ramsay and Robin R. Ramsay, Joint Tenants, of P. O. Box 132, Monticello, Utah 84535.

This Surface Use Agreement remains in force and was entered into effective February 8, 2013, covering the following lands in San Juan County, Utah:

Township 34 South, Range 24 East, SLM

Section 36: S/2 and that portion of the NE/4 beginning at a point 330 feet South of the Northeast Corner of Section 36 along the East boundary line of said NE/4, thence West 1500 feet along a line parallel to the North boundary line of Section 36, thence South 2310 feet, more or less, along a line parallel to the East boundary of Section 36 to the South boundary line of the NE/4, thence East 1500 feet, more or less, along the South boundary line of the NE/4 and thence North 2310 feet, more or less, along the East boundary of the NE/4 to the point of beginning.

(containing 399.55 acres, more or less, and including all of said Section 36 not conveyed By that certain Deed dated February 20, 1998 and recorded the same day in Book 766 and Page 82, wherein Kevin R. Ramsay and Robin R. Ramsay conveyed the NW/4 and a metes and bounds parcel in the NE/4 to Erwin P. Ramsay and Marie T. Ramsay.)

Executed this 20 day of Mar, 2013

Michael P. Coder

Anadarko Petroleum Corporation

State of Utah
School and Institutional
Trust Lands Administration 675 East 500 South #500

Salt Lake City, UT 84102-2818 Telephone No. (801)538-5100

Fax No. (801)355-0922

Web site: trustlands.utah.gov

Date: 05/14/2013

DESIGNATION OF OPERATOR

The undersigned is, on the records of the School and Institutional Trust Lands Administration, holder of lease, ML_51418

And hereby designates:

Zip Code: 80202 Operator Name: Anadarko E&P Onshore LLC 1099 18th Street Suite 1800 Colorado Denver Address: State: City:

act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the Director of the Administration or his representative may serve written or oral instructions in securing compliance with the Rules and Regulations Governing the Issuance of Mineral Leases with respect to (describe acreage to which this designation is applicable): as his operator and local agent, with full authority to

Township	Range	Section	Section Legal Description				Acres
34 South	24 East	36	San Juan County, Utah		1	SL Meridian	640.00
				>	Ż		
						Total Acres:	640.00

Operator agrees to comply with all lease provisions, statutes, rules, and regulations, whether federal, state, or local, in its operations on the subject lease.

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Rules and Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Director, Trust Lands Administration or his representative.

The lessee agrees promptly to notify the Trust Lands Administration of any change in the designated operator

				Zip Code: 80202 Steve W. Rawling	SVP Operations
Bill Barrett Corporation	1099 18th Street	Suite 2300	Denver	Colorado Zip Code	
Lessee Name:	Address:		City:	State:	•

Nelson 4 BNRIGHE Mro Agent

Date: 05/14/2013

Date: 05/14/2013

777 HOrney-IN-FAC onshor 4+0 Anadarko

Form 2179 Revised 07/2008

Signature of Operator:

WW Signature of Lessee:

Anadarko E&P Onshore, LLC

Surface Use Plan of Operations

BOULDER POINT FEE 3424-36-1H

Surface: 450 FSL / 703 FEL SESE BHL: 660 FNL / 760 FEL NENE

A. Existing Roads:

Existing roads consist of county and improved/unimproved access roads (two-tracks). In accordance with Onshore Order #1, Anadarko E&P Onshore, LLC (Anadarko) will, in accordance with BMPs, improve or maintain existing roads in a condition that is the same as or better than before operations began. No new disturbance will be created with these activities.

The existing roads will be maintained in a safe and usable condition. Maintenance for existing roads will continue until final abandonment and reclamation of well pads and/or other facilities, as applicable. Road maintenance will include, but is not limited to, blading, ditching, and/or culvert installation and cleanout. To ensure safe operating conditions, gravel surfacing will be performed where excessive rutting or erosion may occur. Dust control will be performed as necessary to ensure safe operating conditions.

B. Location of Existing and/or Proposed Facilities:

Should the well prove productive, production facilities will be installed on the disturbed portion of each well pad. A berm will be constructed completely around production components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will generally be constructed of compacted subsoil or corrugated metal, and will hold the capacity of the largest tank and have sufficient freeboard to accommodate a 25 year rainfall event. This includes pumping units. Gas that may be produced will be flared on location. A production facility layout is provided as part of a project-specific APD.

Anadarko will place a 30 millimeter thick impermeable liner under the rig. A single felt liner will also be installed under the impermeable liner for padding. The liner will be approximately 200' by 200', and should cover the entire rig, mud tanks, fuel tanks and any other equipment needed during the drilling operations.

C. Pits for Drilling and Completions:

Anadarko will use a closed loop mud drilling system that will require one pit and one storage area to be constructed on the drilling pad. The storage area will be used to contain only the de-watered drill cuttings and will be lined and reclaimed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit is lined with felt and 30

mil liner and will be used for the well drilled on the pad. All four sides of the completions pit will be fenced in according to standard pit fencing procedures. Netting will be installed over all pits.

Anadarko will use a closed loop mud system and will rent an oil based mud from Anchor and will be returning the oil based mud that is left at the end of the well to Anchor. Anadarko will utilize drip pans, catch pans, and secondary containment on the well site. Upon completions of the re-entry, Anadarko will either treat and bury the cuttings in a pit on the well pad, or collect the cuttings in boxes to have hauled off to a land farm in Altamont for disposal.

D. Location and Types of Water Supply:

Water for drilling and completion operations will be obtained from the city of Dove Creek, Colorado and/or from the city of Monticello, Utah. Water will be hauled to location over the existing access roads. No water well is to be drilled on this lease.

E. Methods for Handling Waste:

All wastes subject to regulation will be handled in compliance with applicable laws to minimize the potential for leaks or spills to the environment. Anadarko also maintains a Spill Control and Countermeasure Plan, which includes notification requirements, including the BLM, for all reportable spills of oil, produced liquids, and hazardous materials.

Any accidental release, such as a leak or spill in excess of the reportable quantity, as established by 40 CFR Part 117.3, will be reported as per the requirements of CERCLA, Section 102 B. If a release involves petroleum hydrocarbons or produced liquids, Anadarko will comply with the notification requirements of NTL-3A. Drill cuttings and/or drilling fluids will be contained in the reserve/frac pit. Cuttings will be buried in pit(s) upon closure.

Pits will be constructed to minimize the accumulation of surface precipitation runoff into the pit (via appropriate placement of subsoil storage areas and/or construction of berms, ditches, etc.). Should unexpected liquid petroleum hydrocarbons (crude oil or condensate) be encountered during drilling, completions or well testing, liquid petroleum hydrocarbons will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be released into a reserve/completion pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternate is approved by the BLM. Should timely removal not be feasible, the pit will be netted as soon as practical. Similarly, hydrocarbon removal will take place prior to the closure of the pit, unless authorization is provided for disposal via alternate pit closure methods (e.g. solidification).

The reserve and/or fracture stimulation pit will be lined with an impermeable liner. The liner will be a synthetic material 30 mil or thicker. The bottom and side walls of the pit will be void of any sharp rocks that could puncture the liner. The liner will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. After evaporation and when dry, the reserve pit liners will be cut off, ripped and/or folded back (as

safety considerations allow) as near to the mud surface as possible and buried on location or hauled to a landfill prior to backfilling the pit with a minimum of five feet of soil material.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after one year from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift.

For the protection of livestock and wildlife, all open pits (excluding flare pits) will be fenced to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet. Siphons, catchments, and absorbent pads will be installed to keep hydrocarbons produced by the drilling rig or other equipment on location from entering the reserve pit. Hydrocarbons, contaminated pads, and/or soils will be disposed of in accordance with state and federal requirements.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

F. Materials Management

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term "hazardous materials" as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition, no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Hazardous materials may be contained in some grease or lubricants, solvents, acids, paint, and herbicides, among others as defined above. Anadarko maintains a file, per 29 CFR 1910.1200 (g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances that are used during the course of construction, drilling, completion, and production operations for this project. The transport, use, storage and handling of hazardous materials will follow procedures specified by federal and state regulations. Transportation of hazardous materials to the well location is regulated by the Department of Transportation (DOT) under 49 CFR, Parts 171-180. DOT regulations pertain to the packing, container handling, labeling, vehicle placarding, and other safety aspects.

Potentially hazardous materials used in the development or operation of wells will be kept in limited quantities on well sites and at the production facilities for short periods of time. Chemicals meeting the

criteria for being an acutely hazardous material/substance or meet the quantities criteria per BLM Instruction Memorandum No. 93-344 will not be used.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities (crude oil/condensate, produced water). They may also be kept in limited quantities on drilling sites (barite, diesel fuel, cement, cottonseed hulls, etc.) for short periods of time during drilling or completion activities.

G. Surface Ownership:

Kevin R. and Robin R. Ramsay
P.O. Box 132
Monticello, UT 84535
(435) 459-1795



H. Lessee's or Operators' Representative & Certification:

Gina T. Becker Senior Regulatory Analyst Anadarko E&P Onshore, LLC PO Box 173779 Denver, CO 80217-3779 (720) 929-6086 Tommy Thompson General Manager, Drilling Anadarko E&P Onshore, LLC PO Box 173779 Denver, CO 80217-3779 (720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Anadarko E&P Onshore, LLC is considered to be the operator of the subject well. Anadarko E&P Onshore, LLC agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

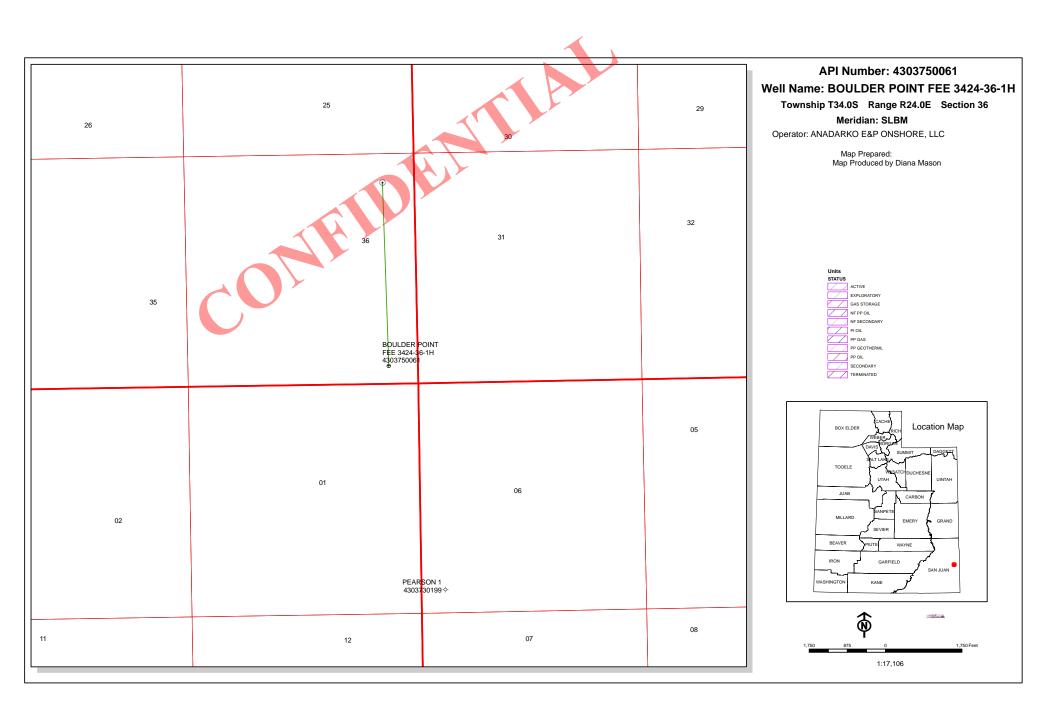
Bond coverage for State lease activities is provided by State Surety Bond 22013542.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Gina T. Becker

May 24, 2013

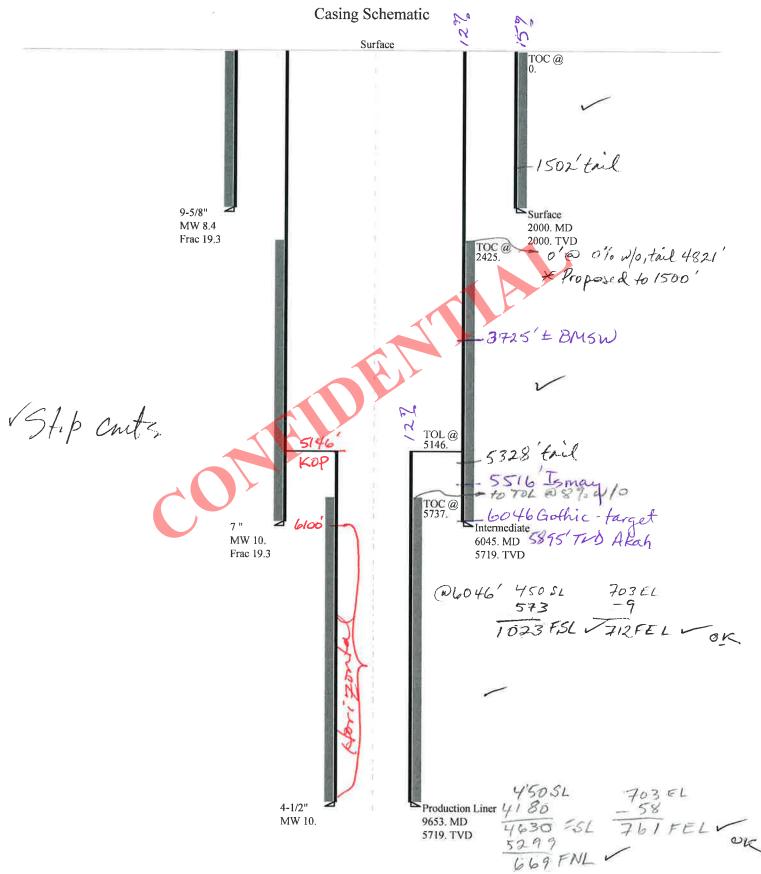
Date



BOPE REVIEW ANADARKO E&P ONSHORE, LLC LDER POINT FEE 3424-36-1H 43037500610000

Well Name	ANADARKO E&P ONSHORE, LLC BOULDER POINT			T FEE	3424-36-1H	4		
String	Surf I1 Prod					ī		
Casing Size(")		9.625	7.000	4.500			<u>=</u>	
Setting Depth (TVD)		2000	6045	5719			<u>-</u>	
Previous Shoe Setting Depth (TVD)		0	2000	6045			<u>-</u>	
Max Mud Weight (ppg)		8.4	10.0	10.0			<u>-</u>	
BOPE Proposed (psi)		500	5000	5000			<u>-</u>	
Casing Internal Yield (psi)		3520	11220	14420			<u>-</u>	
Operators Max Anticipated	Pressure (psi)	2745		9.2			<u>-</u>	
		,	,	,				
Calculations		Surf Stri) 41- *) /) /)	_	9.625	<u>"</u>	
Max BHP (psi)		٠.	052*Setting D	peptn*MW=	874		DODE Ado	quate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)		Max BH	P-(0.12*Setti	ing Denth)=	00.4			
MASP (Gas/Mud) (psi)			P-(0.22*Setti		634		NO	diverter
MASI (Gas/Mud) (psi)		Max Bii	1-(0.22 Betti	ing Deptin)=	434		*Can Full	OK Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP22*(S	etting Depth	- Previous Sh	ioe Depth)=	434		NO NO	To local to the first of the fi
Required Casing/BOPE Tes				200		psi		
*Max Pressure Allowed @ 1	Shoe=			0			umes 1psi/ft frac gradient	
					IIo		1	
Calculations		I1 Strin	ıg			7.000	"	
Max BHP (psi)	.052*Setting Depth*MW=				314	3		
751.00 (Q.) ()	Max BHP (0.12*Setting Depth)=						BOPE Ade	quate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)					241	8	YES	5M BOPE, pipe and blind rams, 5M annular
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=			181	3	YES YES	5M choke panel with 2 chokes - one remote	
Pressure At Previous Shoe Max BHP22*(Setting Depth - Previous Shoe Depth)=			_			Expected Pressure Be Held At Previous Shoe?		
Required Casing/BOPE Tes		ctting Depth	- Trevious Si	loc Deptil)=	225		psi	ОК
		Shoe-			500		-	umes 1psi/ft frac gradient
*Max Pressure Allowed @ Previous Casing Shoe=				200	0	p31 7133	unies 1psi/it frac gradient	
Calculations		Prod Str	ing			4.500	"	
Max BHP (psi)		.0	52*Setting D	Pepth*MW=	297	4		
							BOPE Ade	quate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)		Max BH	P-(0.12*Setti	ing Depth)=	228	8	YES	5M BOPE, pipe and blind rams, 5M annular
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=			171	6	YES	5M choke panel with 2 chokes - one remote	
					_			Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe Max BHP22*(Setting Depth - Previous Shoe Depth)=				304	6	YES .	ОК	
Required Casing/BOPE Test Pressure=			500	0	psi	1 1/6 6		
*Max Pressure Allowed @ Previous Casing Shoe=					604	5	psi *Ass	umes 1psi/ft frac gradient
Calculations		String					"	
Max BHP (psi)		.0	52*Setting D	epth*MW=				
							BOPE Ade	quate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)		Max BH	P-(0.12*Setti	ing Depth)=			NO	
MASP (Gas/Mud) (psi)		Max BH	P-(0.22*Setti	ing Depth)=			NO	
							*Can Full	Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe		etting Depth	- Previous Sh	ioe Depth)=			NO	
Required Casing/BOPE Tes	st Pressure=						psi	
*Max Pressure Allowed @ 1	Previous Casing	Shoe=				il	psi *Ass	umes 1psi/ft frac gradient

43037500610000 Boulder Point Fee 3424-36-1H



Well name:

43037500610000 Boulder Point Fee 3424-36-1H

Operator:

ANADARKO E&P ONSHORE, LLC

String type:

Location:

Surface

SAN JUAN COUNTY

Project ID:

43-037-50061

Design parameters:

Collapse

Mud weight:

8.400 ppg Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Burst: Design factor

Design factor

1.125

Environment:

H2S considered? Surface temperature: Bottom hole temperature:

Νo 74 °F 102 °F

Temperature gradient: Minimum section length: 1.40 °F/100ft

Cement top:

100 ft

Surface

Burst

Max anticipated surface

pressure: Internal gradient:

1,760 psi 0.120 psi/ft

Calculated BHP

2,000 psi

No backup mud specified.

Premium:

Body yield:

Tension is based on air weight. Neutral point:

1.00

Tension:

8 Round STC: 1.80 (J) 8 Round LTC: 1.70 (J) 1.60 (J) Buttress:

1.50 (J) 1.50 (B)

1,751 ft

Non-directional string.

Re subsequent strings:

Next setting depth: Next mud weight: Next setting BHP:

5.719 ft 10.000 ppg 2,971 psi 19.250 ppg

Fracture mud wt: Fracture depth: Injection pressure:

2,000 ft 2,000 psi

Run	Segment		Nominal		End	True Vert	Measured	Drift	Est.
Seq	Length (ft)	Size (in)	Weight (lbs/ft)	Grade	Finish	Depth (ft)	Depth (ft)	Diameter (in)	Cost (\$)
1	2000	9.625	36.00	J-55	LT&C	2000	2000	8.796	16355
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	873	2020	2.315	2000	3520	1.76	72	453	6.29 J

Prepared

by:

Helen Sadik-Macdonald Div of Oil, Gas & Mining

Phone: 801 538-5357 FAX: 801-359-3940

Date: June 27,2013 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2000 ft, a mud weight of 8,4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

43037500610000 Boulder Point Fee 3424-36-1H Well name:

Operator: ANADARKO E&P ONSHORE, LLC

String type: Intermediate Project ID: 43-037-50061

SAN JUAN COUNTY Location:

Design parameters: Minimum design factors: **Environment:** Collapse Collapse: H2S considered?

Tension:

Nο Mud weight: 10.000 ppg Design factor 1.125 Surface temperature: 74 °F Design is based on evacuated pipe. Bottom hole temperature: 154 °F

Temperature gradient: 1.40 °F/100ft Minimum section length: 1.000 ft

1.80 (J)

1.80 (J)

3.78

Burst: Design factor 1.00

Burst

Max anticipated surface pressure: 1.713 psi Internal gradient: 0.220 psi/ft

Calculated BHP 2,971 psi 8 Round STC: 8 Round LTC: No backup mud specified. Buttress:

1.60 (J) 1.50 (J) Premium: Body yield: 1.60 (B)

> Tension is based on air weight. Neutral point:

Directional Info - Build & Hold

Kick-off point 5146 ft Departure at shoe: 572 ft Maximum dogleg: 10 °/100ft

2.425 ft

5,719 psi

4.81 J

Inclination at shoe: 89.93°

Re subsequent strings: Next setting depth: 5,719 ft Next mud weight: 10.000 ppg 4,853 ft Next setting BHP: 2.971 psi Fracture mud wt: 19.250 ppg Fracture depth: 5,719 ft

165.8

Injection pressure:

Cement top:

Run Segment **Nominal** End True Vert Measured Drift Est. Seq Length Size Weight Finish Grade Depth Depth Diameter Cost (ft) (in) (lbs/ft) (ft) (ft) (in) (\$) 6045 29.00 1 HCP-110 LT&C 5719 6045 6.059 68264 Run Collapse Collapse Collapse **Burst** Burst **Burst** Tension Tension **Tension** Seq Load Strength Design Load Strength Design Load Strength Design (psi) (psi) **Factor** (psi) (psi) **Factor** (kips) (kips) Factor 1 2971 8785 2.957 2971

11220

Helen Sadik-Macdonald Prepared Div of Oil, Gas & Mining

Phone: 801 538-5357 FAX: 801-359-3940

Date: June 27,2013 Salt Lake City, Utah

797

Remarks:

Collapse is based on a vertical depth of 5719 ft, a mud weight of 10 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Well name:

43037500610000 Boulder Point Fee 3424-36-1H

Operator:

ANADARKO E&P ONSHORE, LLC

String type:

Production Liner

Project ID:

Location:

Froduction Line

SAN JUAN COUNTY

43-037-50061

Design parameters:

<u>Collapse</u>

Mud weight: 10.000 ppg
Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Environment:

H2S considered? No Surface temperature: 74 °F Bottom hole temperature: 154 °F

Temperature gradient: 1.40 °F/100ft

Minimum section length: 1,000 ft

Burst:

Design factor

Cement top:

5,737 ft

<u>Burst</u>

Max anticipated surface pressure:

Internal gradient: Calculated BHP 1,713 psi 0.220 psi/ft 2,971 psi

2,311 μ

No backup mud specified.

Tension: 8 Round STC:

8 Round LTC: Buttress:

Premium: Body yield: 1.80 (J)

1.00

1.80 (J) 1.60 (J) 1.50 (J)

1.60 (B)

Liner top: 5,146 ft
Directional Info - Build & Hold
Kick off point

Kick-off point 5146 ft
Departure at shoe: 4180 ft
Maximum dogleg: 10 °/100ft

Inclination at shoe: 90 °

Tension is based on air weight.

Neutral point: 5,715 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	4553	4.5	15.10	HCP-110	DQX	5719	9653	3.701	240398
Run Seq	Collapse Load (psi) 2971	Collapse Strength (psi) 15500	Collapse Design Factor 5.218	Burst Load (psi) 2971	Burst Strength (psi) 14420	Burst Design Factor 4.85	Tension Load (kips) 9.3	Tension Strength (kips) 484.8	Tension Design Factor 51.89 J

Prepared

by:

Helen Sadik-Macdonald Div of Oil, Gas & Mining Phone: 801 538-5357 FAX: 801-359-3940

Date: June 27,2013 Salt Lake City, Utah

Remarks:

For this liner string, the top is rounded to the nearest 100 ft.Collapse is based on a vertical depth of 5719 ft, a mud weight of 10 ppg. The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator ANADARKO E&P ONSHORE, LLC **Well Name** BOULDER POINT FEE 3424-36-1H

API Number 43037500610000 APD No 8093 Field/Unit WILDCAT

Location: 1/4,1/4 SESE Sec 36 Tw 34.0S Rng 24.0E 450 FSL 703 FEL

GPS Coord (UTM) Surface Owner Kevin R. & Robin R. Ramsay

Participants

Bart Kettle-Division of Oil Gas and Mining (DOGM), Kevin Ramsay-Surface Owner, Gina Becker-Anadarko E&P Onshore LLC, Jacob Dunham-Anadarko E&P Onshore LLC, Jed Lemmons-Anadarko E&P Onshore LLC, Chantill Recker-Anadarko E&P, Andrue Flyod-Timberline

Regional/Local Setting & Topography

The proposed project is located ~9 miles southeast of Monticello in San Juan County Utah. Locally the proposed project is surrounded by agriculture lands used to grow dry land crops including small grains, sun flower, saflower, beans, alfalfa and dry land pasture on the Great Sage Plain. Regionally the project area is within in the Colorado Plateau in the Four corners area on what is commonly referred to has the Canyon lands Region. Four Corners area is know for it native American ruins and culture. The Canyon lands Region is distinguished by is broad mesas cut by spectacular sandstone canyons. Climates in this region tend to be arid, with a sparsely vegetated landscape prone to erosion. Topography rises sharply to the west reaching elevations in excess of 11,000 atop the Abaho Mountains. Montane forest and high elevation grass/forb communities dominate vegetation. To the east a series of mesas rise to the Rico Mountains in western Colorado. Vegetation is a mixture of salt desert scrub, Pinion/Juniper and montane forest. Precipitation at the project site is considered a 14" zone. Drainage flows into Montezuma Creek within a 1 1/2 miles and onto the San Juan River 30 miles away.

Surface Use Plan

Current Surface Use

Agricultural

New Road
Miles

Well Pad

Src Const Material

Surface Formation

0.5 **Width** 435 **Length** 660 DKTA

Ancillary Facilities N

Waste Management Plan Adequate? N

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Flora

Dry land wheat field: Wheat, sunflower, Russian thistle, jointed goat grass, thick spike wheatgrass, intermediate wheatgrass, creasted wheat gras, gamble oak, Utah juniper, tall wheat grass, prickly lettuce, tumble mustard, Wyoming sage.

Fauna: Rocky mountain elk, mule deer, mountain lion, black bear, coyote, kit fox, gray fox, badger, cotton tail rabbit, black tailed jack rabbit, spotted skunk, and Gunnison prairie dog. Host of small rodents and reptiles possible such as: woodrat spp, kangaroo rat spp., deer mouse, pinion mouse, rock squirrel, and antelope squirrel. Seasonal use by migrating birds such as sage sparrow, cassin finch, house finch, pinion jay, white crowned sparrow, gray crowned rosy finch, blue gray knat catcher, Bewick's wren, black throated sparrow, black capped chickadee, Brewers sparrow, bushtit, western kingbird, chipping sparrow, common nighthawk, Coppers hawk, sharp shin hawk, red tailed hawk, ruff legged hawk, golden eagle, bald eagle turkey vulture, Downey wood pecker, juniper titmouse, northern shrike, mountain bluebird, mourning dove, pine siskin, sage thrasher, western blue bird, and western meadow lark.

Soil Type and Characteristics

Monticello very fine sandy loam. Fine textured orange sandy loam soils 80" deep.

Erosion Issues Y

Sandy loam soils prone to wind erosion once disturbed

Sedimentation Issues N

Site Stability Issues N

Site stability appears suitable for the proposed drilling program.

Drainage Diverson Required? Y

Some drainage diversion may be required for southern portions of well pad, re-alignment of agriculture berms and along access road.

Berm Required? Y

Berms not required around well pad, but are required around equipment and tanks containing E&P fluids, fuels and lubricants.

Erosion Sedimentation Control Required? Y

Top soil stock pile should be seeded with perennial grass and forb species to stabilize following disturbance.

Paleo Survey Run? N Paleo Potental Observed? N Cultural Survey Run? N Cultural Resources? N

Reserve Pit

Site-Specific Factors	Site Ran	king
Distance to Groundwater (feet)		20
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	>1320	0
Native Soil Type	High permeability	20

Fluid Type	TDS>5000 and	10	
Drill Cuttings	Normal Rock	0	
Annual Precipitation (inches)	10 to 20	5	
Affected Populations			
Presence Nearby Utility Conduits	Not Present	0	
	Final Score	5.5	1 Sensitivity Level

Characteristics / Requirements

Reserve pit will not be permitted at this site, a closed loop drilling system is being proposed.

Completions pit will be permitted with a 30 mil liner as proposed.

All E&P materials, including drill cuttings, shall be contained in steel tanks or an approved pit containing a synthetic liner until it can be demonstrated such materials meet DOGM standards for abandonment. E&P materials, such as drilling cuttings, shall conform to the following DOGM standards prior to abandonment: Electrical Conductivity

Closed Loop Mud Required? Y Liner Required? Y Liner Thickness 30 Pit Underlayment Required? Y

Other Observations / Comments

High quality ground water is thought to occur at the Dakota Sandstone in the area.

Multiple permanent resident and recreational houses are located in close proximity to the proposed project area or access route. Potential for conflicts between adjacent surface owners and drilling operations exist.

Bart Kettle 6/18/2013
Evaluator Date / Time

Application for Permit to Drill Statement of Basis

Utah Division of Oil, Gas and Mining

APD No	API WellNo Sta	atus	Well Type	Surf Owner	CBM
8093	43037500610000 LO	CKED	OW	P	No
Operator	ANADARKO E&P ONSHORE, L	LC	Surface Owner-API	D Kevin R. & Rol Ramsay	bin R.
Well Name	BOULDER POINT FEE 3424-30	6-1H	Unit		
Field	WILDCAT		Type of Work	DRILL	
Location	SESE 36 34S 24E S 45 (UTM) 655915E 4182042N		703 FEL GPS Coord		

Geologic Statement of Basis

Anadarko E&P Onshore, LLC proposes to drill the well to a total depth of 5,718' and plans to set surface casing from 0'-2,000'. The surface string will be drilled using a water based mud. Within a one-mile radius there is one underground water right; the water well is 185' deep, with depth to water measured at 118' below the ground surface. The base of the moderately saline groundwater is approximately 3,725' below the ground surface, based on DNR Technical Publication #94. Several units of the Morrison Formation, Entrada Sandstone, and Navajo Sandstone are present within the subsurface; these strata are likely to contain useable groundwater and are within the interval to be protected by the surface casing string. The operator should be aware of the likelihood of these and other units being water saturated and to respond to protecting these zones by extending the surface casing as necessary. Proposed surface casing and cement should adequately isolate any shallow zones containing water.

Ammon McDonald 7/1/2013
APD Evaluator Date / Time

Surface Statement of Basis

Surface evaluation completed on June 18, 2013. In attendance: Bart Kettle-Division of Oil Gas and Mining (DOGM), Kevin Ramsay-Surface Owner, Gina Becker-Anadarko E&P Onshore LLC, Jacob Dunham-Anadarko E&P Onshore LLC, Jed Lemmons-Anadarko E&P Onshore LLC, Chantill Recker-Anadarko E&P, Andrue Flyod-Timberline

As proposed well will be drilled using a closed loop mud circulating system, no reserve pit is being requested for proposed project. Drilling medium will be contained in steel mud tanks, drill cuttings will be separated from drilling medium and captured in a steel trough or tank. All E&P materials, including drill cuttings, shall be contained in steel tanks or an approved pit containing a synthetic liner until it can be demonstrated such materials meet DOGM stands for abandonment. E&P materials, such as drilling cuttings, shall conform to the following DOGM standards prior to abandonment: Electrical Conductivity Access road should be maintained as a surfaced raised bed road with a 2% slope to facilitate storm water drainage from running surface. Rolling dips shall be constructed as needed to divert storm water from running surface. Access road shall have a panel gate installed at fence line intersection.

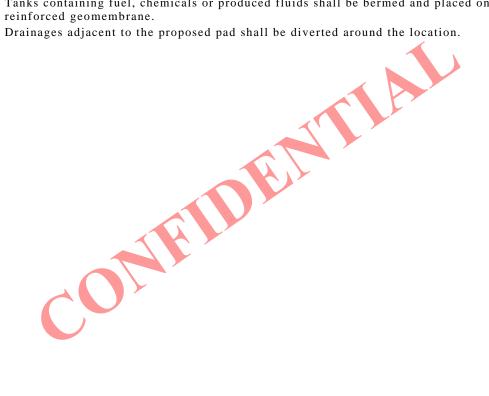
Top 24" of suitable soils shall be salvaged for interim reclamation. Top soil and rock should be kept separate in construction of pipelines per surface owner request. Soils containing

rock fragments should not be salvaged.

Bart Kettle 6/18/2013
Onsite Evaluator Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A closed loop mud circulation system is required for this location.
Pits	The Division shall be consulted prior to reclamation of pits or disposal of E&P wastes.
Pits	All E&P materials, including drill cuttings, shall be contained in steel tanks or an approved pit.
Surface	Top 24" of suitable soil shall be salvaged.
Surface	Interim reclamation shall be completed within 12 months following well pad construction.
Surface	Fresh water shall be applied to access road and well pad to control dust.
Surface	Tanks containing fuel, chemicals or produced fluids shall be bermed and placed on a 30 mil string reinforced geomembrane.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.



WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 5/24/2013 API NO. ASSIGNED: 43037500610000

WELL NAME: BOULDER POINT FEE 3424-36-1H

OPERATOR: ANADARKO E&P ONSHORE, LLC (N3940) PHONE NUMBER: 720 929-6086

CONTACT: Gina Becker

LEASE TYPE: 3 - State

PROPOSED LOCATION: SESE 36 340S 240E Permit Tech Review:

> **SURFACE:** 0450 FSL 0703 FEL Engineering Review:

> BOTTOM: 0660 FNL 0760 FEL Geology Review:

COUNTY: SAN JUAN

LATITUDE: 37.77243 LÓNGITUDE: -109.22967 **UTM SURF EASTINGS: 655915.00** NORTHINGS: 4182042.00

FIELD NAME: WILDCAT

LOCATION AND SITING:

LEASE NUMBER: ML-51418 PROPOSED PRODUCING FORMATION(S): GOTHIC

SURFACE OWNER: 4 - Fee **COALBED METHANE: NO**

RECEIVED AND/OR REVIEWED:

✓ PLAT R649-2-3.

Bond: STATE - 22013542 Unit:

R649-3-2. General **Potash**

Oil Shale 190-5

Oil Shale 190-3 R649-3-3. Exception

Oil Shale 190-13 **Drilling Unit**

Board Cause No: R649-3-2.6 Water Permit: Municipal

RDCC Review: 2013-07-11 00:00:00.0 **Effective Date:**

Fee Surface Agreement Siting:

Intent to Commingle R649-3-11. Directional Drill

Commingling Approved

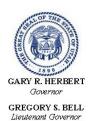
s: Presite Completed TEMP 640 ACRE SPACING: Comments:

Stipulations: 5 - Statement of Basis - bhill

12 - Cement Volume (3) - hmacdonald

21 - RDCC - dmason

23 - Spacing - dmason 25 - Surface Casing - hmacdonald 26 - Temporary Spacing - bhill 27 - Other - bhill



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: BOULDER POINT FEE 3424-36-1H

API Well Number: 43037500610000

Lease Number: ML-51418
Surface Owner: FEE (PRIVATE)
Approval Date: 7/15/2013

Issued to:

ANADARKO E&P ONSHORE, LLC, P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of R649-3-2.6. The expected producing formation or pool is the GOTHIC Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

The Application for Permit to Drill has been forwarded to the Resource Development Coordinating Committee for review of this action. The operator will be required to comply with any applicable recommendations resulting from this review. (See attached)

This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

A temporary 640 acre spacing unit is hereby established in Section 36, Township 34 S, Range 24 E, SLM for the drilling of this well (R649-3-2.6). No other horizontal wells may be drilled in this section unless approved by the Board of Oil, Gas and Mining.

Cement volume for the 7" intermediate and 4 1/2 production strings shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to 1500' MD and TOL, respectively, as indicated in the submitted drilling plan.

Surface casing shall be cemented to the surface.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

In accordance with Utah Admin. R.649-3-21, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan contact Dustin Doucet
- Significant plug back of the well contact Dustin Doucet
- Plug and abandonment of the well contact Dustin Doucet

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well contact Carol Daniels OR
- submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
 - at http://oilgas.ogm.utah.gov
 - 24 hours prior to testing blowout prevention equipment contact Dan Jarvis
 - 24 hours prior to cementing or testing casing contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program
 - contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well-contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 office
- Dustin Doucet 801-538-5281 office

801-733-0983 - after office hours

• Dan Jarvis 801-538-5338 - office

801-231-8956 - after office hours

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
 - Requests to Change Plans (Form 9) due prior to implementation
 - Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
 - Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

For John Rogers Associate Director, Oil & Gas Sundry Number: 40202 API Well Number: 43037500610000

	STATE OF UTAH		FORM 9	
	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MIN		5.LEASE DESIGNATION AND SERIAL NUMBER: ML-51418	
SUNDF	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:			
	oposals to drill new wells, significantly d reenter plugged wells, or to drill horizon n for such proposals.		7.UNIT or CA AGREEMENT NAME:	
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: BOULDER POINT FEE 3424-36-1H	
2. NAME OF OPERATOR: ANADARKO E&P ONSHORE	, LLC		9. API NUMBER: 43037500610000	
3. ADDRESS OF OPERATOR: P.O. Box 173779, Denver,		PHONE NUMBER: 300 Ext	9. FIELD and POOL or WILDCAT: WILDCAT	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0450 FSL 0703 FEL			COUNTY: SAN JUAN	
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: SESE Section: 3	HIP, RANGE, MERIDIAN: 6 Township: 34.0S Range: 24.0E Meridia	nn: S	STATE: UTAH	
11. CHEC	K APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPOR	RT, OR OTHER DATA	
TYPE OF SUBMISSION		TYPE OF ACTION		
The Operator wish APD package. This Section 25, To -109.119856) / 2. Township 42N - Ra 3. Blanding Hydrant	CHANGE TO PREVIOUS PLANS CHANGE WELL STATUS DEEPEN OPERATOR CHANGE PRODUCTION START OR RESUME REPERFORATE CURRENT FORMATION TUBING REPAIR WATER SHUTOFF WILDCAT WELL DETERMINATION COMPLETED OPERATIONS. Clearly show at es to add additional water so is a Confidential well. 1. Poncownship 34S - Range 25E in Irrigation Well- Located in the ange 19W in Colorado (37.93t- Located in the SWSW, Sected 22E in Utah (37.637213, -1)	ources to our approved d- Located in the SENE, Utah (37.796126, ne SENW, Section 6, 34544, -109.006297) / tion 23m Township 36S	CASING REPAIR CHANGE WELL NAME CONVERT WELL TYPE NEW CONSTRUCTION PLUG BACK RECOMPLETE DIFFERENT FORMATION TEMPORARY ABANDON WATER DISPOSAL APD EXTENSION OTHER: Add Water Sources Diepths, volumes, etc. Accepted by the Utah Division of Oil, Gas and Mining Date: July 22, 2013 By:	
NAME (DI EACE DOINT)	BUONE NUMBE			
NAME (PLEASE PRINT) Gina Becker	PHONE NUMBE 720 929-6086	Regulatory Analyst II		
SIGNATURE N/A		DATE 7/18/2013		

Sundry Number: 51481 API Well Number: 43037500610000

	STATE OF UTAH		FORM 9	
	DEPARTMENT OF NATURAL RESOURC DIVISION OF OIL, GAS, AND MIN		5.LEASE DESIGNATION AND SERIAL NUMBER: ML-51418	
SUNDF	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:		
	oposals to drill new wells, significantly or reenter plugged wells, or to drill horizon n for such proposals.		7.UNIT or CA AGREEMENT NAME:	
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: BOULDER POINT FEE 3424-36-1H		
2. NAME OF OPERATOR: ANADARKO E&P ONSHORE	, LLC		9. API NUMBER: 43037500610000	
3. ADDRESS OF OPERATOR: P.O. Box 173779, Denver,	CO, 80217 720 929-6	PHONE NUMBER: 3100 Ext	9. FIELD and POOL or WILDCAT: WILDCAT	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0450 FSL 0703 FEL			COUNTY: SAN JUAN	
QTR/QTR, SECTION, TOWNS	HIP, RANGE, MERIDIAN: 6 Township: 34.0S Range: 24.0E Meridia	an: S	STATE: UTAH	
11. CHEC	K APPROPRIATE BOXES TO INDICAT	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA	
TYPE OF SUBMISSION		TYPE OF ACTION		
	ACIDIZE	ALTER CASING	CASING REPAIR	
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME	
7/15/2014	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE	
SUBSEQUENT REPORT	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION	
Date of Work Completion:				
	OPERATOR CHANGE	PLUG AND ABANDON	L PLUG BACK	
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION	
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	L TEMPORARY ABANDON	
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL	
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION	
Nopon Suite	WILDCAT WELL DETERMINATION	OTHER	OTHER:	
12. DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly show a	all pertinent details including dates, o	depths, volumes, etc.	
1	shore, LLC respectfully reque		Approved by the	
APD for the maxin	num time allowed. Please co	ntact the undersigned	Utah Division of	
with any	questions and/or comments	s. Thank you.	Oil, Gas and Mining May 29, 2014	
			Date:	
			By: Basyll	
NAME (PLEASE PRINT)	PHONE NUMB	ER TITLE		
Teena Paulo	720 929-6236	Staff Regulatory Specialist		
SIGNATURE N/A		DATE 5/27/2014		

Sundry Number: 51481 API Well Number: 43037500610000



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43037500610000

API: 43037500610000

Well Name: BOULDER POINT FEE 3424-36-1H

Location: 0450 FSL 0703 FEL QTR SESE SEC 36 TWNP 340S RNG 240E MER S

Company Permit Issued to: ANADARKO E&P ONSHORE, LLC

Date Original Permit Issued: 7/15/2013

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

• If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes No
 Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes No
• Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes No
 Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? Yes No
• Has the approved source of water for drilling changed? 🔘 Yes 📵 No
 Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes No
• Is bonding still in place, which covers this proposed well? Yes No
nature: Teena Paulo Date: 5/27/2014

Title: Staff Regulatory Specialist Representing: ANADARKO E&P ONSHORE, LLC

Sundry Number: 64003 API Well Number: 43037500610000

	STATE OF UTAH		FORM 9
	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MIN		5.LEASE DESIGNATION AND SERIAL NUMBER: ML-51418
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:		
	oposals to drill new wells, significantly reenter plugged wells, or to drill horizo n for such proposals.		7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: BOULDER POINT FEE 3424-36-1H
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	NSHORE, L.P.		9. API NUMBER: 43037500610000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18tl	h Street, Suite 600, Denver, CO, 8021	PHONE NUMBER: 7 3779 720 929-	9. FIELD and POOL or WILDCAT: 110/00LEEXAT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0450 FSL 0703 FEL			COUNTY: SAN JUAN
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 6 Township: 34.0S Range: 24.0E Meridi	ian: S	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
7	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
6/17/2015	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
Date of Work Completion.	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION
Report Date:	WILDCAT WELL DETERMINATION	OTHER	OTHER:
Kerr-McGee Oil & G an extension to this	COMPLETED OPERATIONS. Clearly show cas Onshore, L.P. (Kerr-McG APD for the maximum time with any questions and/or c	ee) respectfully requests allowed. Please contact	Approved by the
NAME (PLEASE PRINT) Jennifer Thomas	PHONE NUME 720 929-6808	BER TITLE Regulatory Specialist	
SIGNATURE N/A		DATE 6/17/2015	

Sundry Number: 64003 API Well Number: 43037500610000



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43037500610000

API: 43037500610000

Well Name: BOULDER POINT FEE 3424-36-1H

Location: 0450 FSL 0703 FEL QTR SESE SEC 36 TWNP 340S RNG 240E MER S

Company Permit Issued to: ANADARKO E&P ONSHORE, LLC

Date Original Permit Issued: 7/15/2013

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 Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes No
 Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? Yes No
• Has the approved source of water for drilling changed? 🔘 Yes 📵 No
 Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes No
• Is bonding still in place, which covers this proposed well? Yes No

Signature: Jennifer Thomas Date: 6/17/2015

Title: Regulatory Specialist Representing: ANADARKO E&P ONSHORE, LLC



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER

Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA

Division Director

July 21, 2016

Anadarko E&P Onshore, LLC P.O. BOX 173779 Denver, CO 80217

Re:

APD Rescinded-Boulder Point FEE 3424-36-1H, Sec. 36, T. 34S, R. 24E,

San Juan County, Utah API No. 43-037-50061

Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on July 15, 2013. On May 29, 2014 and June 23, 2015 the Division granted a one-year APD extension. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective July 21, 2016.

A new APD must be filed with this office for approval <u>prior</u> to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely

Diana Mason

Environmental Scientist

cc: Well File

SITLA, Ed Bonner

